EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	773	548/183.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/28 18:40
L2	278	548/302.7.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/28 18:40
L3	206	548/303.7.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/28 18:40
L4	1228	514/369.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/28 18:41
L5	282	514/387.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/28 18:41
L6	2441	L1 or L2 or L3 or L4 or L5	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/28 18:41
L7	512	l6	US-PGPUB	OR	ON	2006/11/28 18:41

STN Structure Search
(Registry / Caplus)

10/522,697 11/28/2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:
x
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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	AUG 09	INSPEC enhanced with 1898-1968 archive
NEWS 4	AUG 28	ADISCTI Reloaded and Enhanced
NEWS 5	AUG 30	CA(SM)/CAplus(SM) Austrian patent law changes
NEWS 6	SEP 11	CA/CAplus enhanced with more pre-1907 records
NEWS 7	SEP 21	CA/CAplus fields enhanced with simultaneous left and right truncation
NEWS 8	SEP 25	CA(SM)/CAplus(SM) display of CA Lexicon enhanced
NEWS 9	SEP 25	CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS 10	SEP 25	CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
NEWS 11	SEP 28	CEABA-VTB classification code fields reloaded with new classification scheme
NEWS 12	OCT 19	LOGOFF HOLD duration extended to 120 minutes
NEWS 13	OCT 19	E-mail format enhanced
NEWS 14	OCT 23	Option to turn off MARPAT highlighting enhancements available
NEWS 15	OCT 23	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 16	OCT 23	The Derwent World Patents Index suite of databases on STN has been enhanced and reloaded
NEWS 17	OCT 30	CHEMLIST enhanced with new search and display field
NEWS 18	NOV 03	JAPIO enhanced with IPC 8 features and functionality
NEWS 19	NOV 10	CA/CAplus F-Term thesaurus enhanced
NEWS 20	NOV 10	STN Express with Discover! free maintenance release Version 8.01c now available
NEWS 21	NOV 13	CA/CAplus pre-1967 chemical substance index entries enhanced with preparation role
NEWS 22	NOV 20	CAS Registry Number crossover limit increased to 300,000 in additional databases
NEWS 23	NOV 20	CA/CAplus to MARPAT accession number crossover limit increased to 50,000
NEWS 24	NOV 20	CA/CAplus patent kind codes will be updated

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8
NEWS X25	X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 15:17:23 ON 28 NOV 2006

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 15:17:34 ON 28 NOV 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 27 NOV 2006 HIGHEST RN 914071-04-8
DICTIONARY FILE UPDATES: 27 NOV 2006 HIGHEST RN 914071-04-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

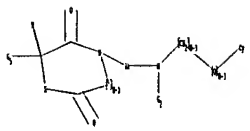
TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

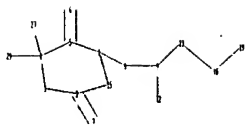
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10522697\7.str





chain nodes :
6 7 8 9 12 18 19 23 27 29
ring nodes :
1 2 3 4 5 15
chain bonds :
1-8 2-7 4-27 4-29 5-6 8-9 9-12 9-23 18-19 18-23
ring bonds :
1-5 1-15 2-3 2-15 3-4 4-5
exact/norm bonds :
1-8 1-5 1-15 2-7 2-3 2-15 3-4 4-5 4-29 5-6 8-9 9-12 18-19
exact bonds :
4-27 9-23 18-23

G1:O,CH2

G2:H,Cb,Ak

G3:S,N

G4:S,CH

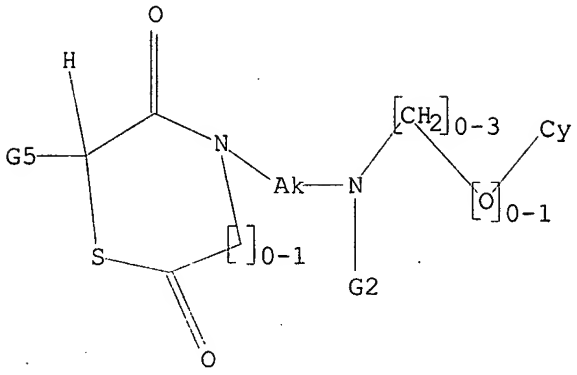
G5:H,CH3

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
12:CLASS 15:Atom 18:CLASS 19:Atom 23:CLASS 27:CLASS 29:CLASS
Element Count :
Node 8: Limited
C,C1-11

Node 19: Limited
C,C6-10
N,N0-2
O,O0-2
S,S0-1

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



$R_1 = H$

$R_2 = S$

G1 O,CH2
G2 H,Cb,Ak
G3 S,N
G4 S,CH
G5 H,Me

Structure attributes must be viewed using STN Express query preparation.

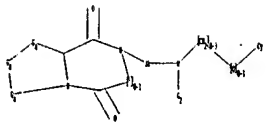
=> s l1 full
FULL SEARCH INITIATED 15:17:54 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 45071 TO ITERATE

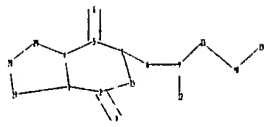
100.0% PROCESSED 45071 ITERATIONS
SEARCH TIME: 00.00.02

274 ANSWERS

L2 274 SEA SSS FUL L1

=>
Uploading C:\Program Files\Stnexp\Queries\10522697\6.str





chain nodes :
6 7 8 9 12 18 19 23
ring nodes :
1 2 3 4 5 15 27 28 29
chain bonds :
1-8 2-7 5-6 8-9 9-12 9-23 18-19 18-23
ring bonds :
1-5 1-15 2-3 2-15 3-4 3-27 4-5 4-29 27-28 28-29
exact/norm bonds :
1-8 1-5 1-15 2-7 2-3 2-15 3-4 3-27 4-5 4-29 5-6 8-9 9-12 9-23 18-19
18-23 27-28 28-29

G1:O,CH2

G2:H,Cb,Ak

G3:S,N

G4:S,CH

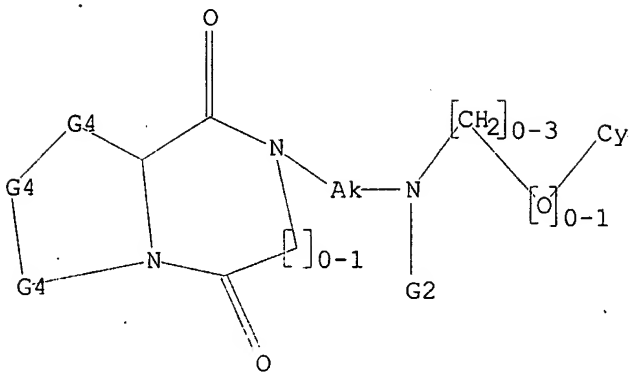
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
12:CLASS 15:Atom 18:CLASS 19:Atom 23:CLASS 27:Atom 28:Atom 29:Atom
Element Count :
Node 8: Limited
C,C1-11

Node 19: Limited
C,C6-10
N,N0-2

O,OO-2
S,SO-1

L3 STRUCTURE UPLOADED

=> d
L3 HAS NO ANSWERS
L3 STR



$R_2 = N$

G1 O,CH2
G2 H,Cb,Ak
G3 S,N
G4 S,CH

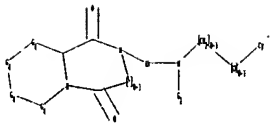
Structure attributes must be viewed using STN Express query preparation.

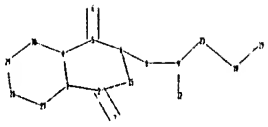
=> s l3 full
FULL SEARCH INITIATED 15:18:48 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 252884 TO ITERATE

100.0% PROCESSED 252884 ITERATIONS 94 ANSWERS
SEARCH TIME: 00.00.06

L4 94 SEA SSS FUL L3

=>
Uploading C:\Program Files\Stnexp\Queries\10522697\5.str





chain nodes :
6 7 8 9 12 18 19 23
ring nodes :
1 2 3 4 5 15 27 28 29 30
chain bonds :
1-8 2-7 5-6 8-9 9-12 9-23 18-19 18-23
ring bonds :
1-5 1-15 2-3 2-15 3-4 3-27 4-5 4-30 27-28 28-29 29-30
exact/norm bonds :
1-8 1-5 1-15 2-7 2-3 2-15 3-4 3-27 4-5 4-30 5-6 8-9 9-12 9-23 18-19
18-23 27-28 28-29 29-30

G1:O,CH2

G2:H,Cb,Ak

G3:S,N

G4:S,CH

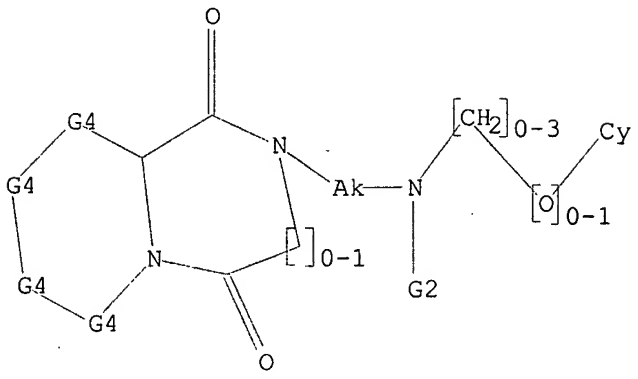
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
12:CLASS 15:Atom 18:CLASS 19:Atom 23:CLASS 27:Atom 28:Atom 29:Atom 30:Atom
Element Count :
Node 8: Limited
C,C1-11

Node 19: Limited
C,C6-10
N,N0-2

O,OO-2
S,SO-1

L5 STRUCTURE UPLOADED

=> d
L5 HAS NO ANSWERS
L5 STR



$R_2 = N$

G1 O,CH2
G2 H,Cb,Ak
G3 S,N
G4 S,CH

Structure attributes must be viewed using STN Express query preparation.

=> s l5 full
FULL SEARCH INITIATED 15:19:15 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 252884 TO ITERATE

100.0% PROCESSED 252884 ITERATIONS 20 ANSWERS
SEARCH TIME: 00.00.06

L6 20 SEA SSS FUL L5

=> fil caplus
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	500.82	501.03

FILE 'CAPLUS' ENTERED AT 15:19:28 ON 28 NOV 2006
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=> d his

(FILE 'HOME' ENTERED AT 15:17:23 ON 28 NOV 2006)

FILE 'REGISTRY' ENTERED AT 15:17:34 ON 28 NOV 2006
L1 STRUCTURE UPLOADED
L2 274 S L1 FULL
L3 STRUCTURE UPLOADED
L4 94 S L3 FULL
L5 STRUCTURE UPLOADED
L6 20 S L5 FULL

FILE 'CAPLUS' ENTERED AT 15:19:28 ON 28 NOV 2006

=> s l2 ✓
L7 38 L2

=> s l4 ✓
L8 11 L4

=> s l6 ✓
L9 4 L6

53

=> s l7 or l8 or l9
L10 49 L7 OR L8 OR L9

=> d ibib abs hitstr 1-49

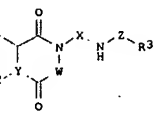
L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:823710 CAPLUS
DOCUMENT NUMBER: 143:229856
TITLE: Preparation of diaza- or thiazadione derivatives as modulators of 5-HT1A receptor
INVENTOR(S): Lopez Rodriguez, Maria Luz; Benhamu Salama, Bellinda; Del Rio Zambrana, Joaquin; Frechilla Manso, Diana; Marco Martinez, Isabel
PATENT ASSIGNEE(S): Cepa Schwarz Pharma S.L., Spain
SOURCE: PCT Int. Appl., 57 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

SAME INV.

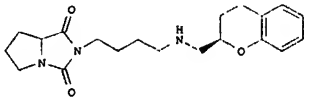
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005075480	A1	20050818	WO 2005-EP840	20050128
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
ES 2238015	A1	20050801	ES 2004-205	20040130
AU 2005211486	A1	20050818	AU 2005-211486	20050128
CA 2554217	AA	20050818	CA 2005-2554217	20050128
EP 1711500	A1	20061018	EP 2005-707057	20050128
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, TR, BG, CZ, EE, HU, PL, SK, HR, IS, YU				

PRIORITY APPLN. INFO.: ES 2004-205 A 20040130
WO 2005-EP840 W 20050128

OTHER SOURCE(S): MARPAT 143:229856
GI



I



II

AB Title compds. I (R1 and R2 independently = H or together form 5-6 membered heterocyclic ring, if Y = S then R1 = H and R2 is absent; Y = N or S; W = (CH2)n; n = 0-1; Z = (CH2)m; m = 1-2; X = alkyl, alkenyl or -CH2-phenyl-CH2-; R3 = (un)substituted chroman-2-yl, 2-quinolyl or -O-Ph with provisions) and their pharmaceutically acceptable salts, are prepared and disclosed as modulators of 5-HT1A receptor. Thus, e.g., II was prepared by substitution of the corresponding alkylamine with the resp. halogenated derivative The activity of I was evaluated in radioligand binding assays towards the 5-HT1A receptor and it was revealed that compds. of the invention displayed Ki values in the range of 0.5 up to 100 nM. I as modulator of 5-HT1A receptor should prove useful as treatment of Parkinson's disease, depression and migraine. Pharmaceutical compns. comprising I are disclosed.

IT 862589-93-3P 862589-94-4P 862589-96-6P
862589-98-8P 862590-00-9P 862590-02-1P
862590-04-3P 862590-06-5P 862590-07-6P
862590-10-1P 862590-11-2P 862590-13-4P
862590-15-6P 862590-17-8P 862590-18-9P
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862590-25-8P 862590-28-1P 862590-30-5P
862590-32-7P 862590-33-8P 862590-34-9P
862590-35-0P 862590-36-1P 862590-37-2P
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862590-44-1P 862590-45-2P 862590-46-3P
862590-47-4P 862590-48-5P 862590-49-6P

L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

862590-50-9P 862590-51-0P 862590-52-1P
862590-53-2P 862590-54-3P 862590-57-6P
862590-58-7P 862590-59-8P 862590-60-1P
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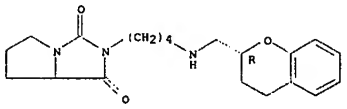
862590-64-5P 862590-65-6P 862590-66-7P
862590-67-8P 862590-68-9P 862590-69-0P
862590-70-3P 862590-71-4P 862590-72-5P
862590-73-6P 862590-74-7P 862590-75-8P
862590-76-9P 862590-77-0P 862590-78-1P
862591-00-2P 862591-01-3P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of diaza- or thiazadione derivs. as modulators of 5-HT1A receptor)

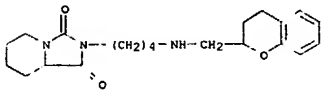
RN 862589-93-3 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[4-[[[(2R)-3,4-dihydro-2H-1-benzopyran-2-yl]methyl]amino]butyl]tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

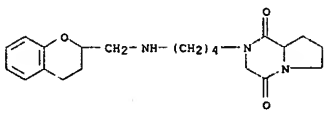
RN 862589-94-4 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[4-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]butyl]tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

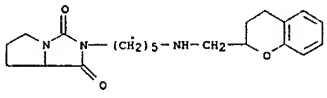
RN 862589-96-6 CAPLUS
CN Pyrrolo[1,2-a]pyrazine-1,4-dione, 2-[4-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]butyl]hexahydro-, monohydrochloride (9CI) (CA INDEX NAME)

L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



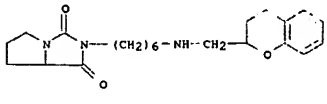
● HCl

RN 862589-98-8 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[5-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]pentyl]tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

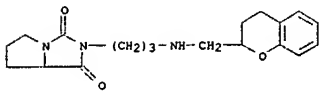
RN 862590-00-9 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[6-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]hexyl]tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

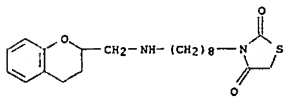
RN 862590-02-1 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[3-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]propyl]tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● HCl

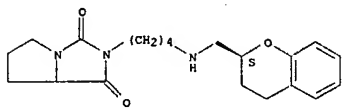
RN 862590-04-3 CAPLUS
CN 2,4-Thiazolidinedione, 3-[8-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]octyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 862590-06-5 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[4-[[[(2S)-3,4-dihydro-2H-1-benzopyran-2-yl]methyl]amino]butyl]tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

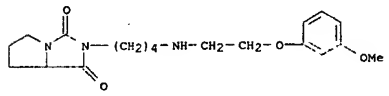
Absolute stereochemistry.



● HCl

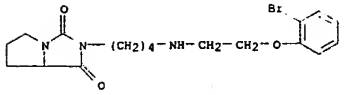
RN 862590-07-6 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[8-[[(3,4-dihydro-2H-1-

L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



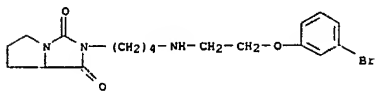
● HCl

RN 862590-15-6 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[4-[[2-(2-bromophenoxy)ethyl]amino]butyl]tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

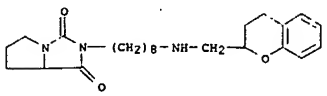
RN 862590-17-8 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[4-[[2-(3-bromophenoxy)ethyl]amino]butyl]tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

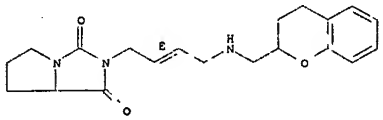
RN 862590-18-9 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[4-[[2-(2-ethylphenoxy)ethyl]amino]butyl]tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
benzopyran-2-yl)methyl]amino]octyl]tetrahydro- (9CI) (CA INDEX NAME)



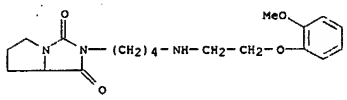
RN 862590-10-1 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[(2E)-4-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]-2-butenyl]tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

Double bond geometry as shown.



● HCl

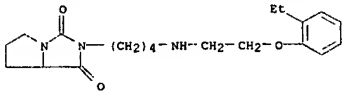
RN 862590-11-2 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[[2-(2-methoxyphenoxy)ethyl]amino]butyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

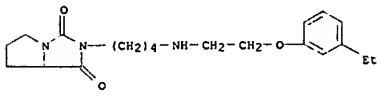
RN 862590-13-4 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[[2-(3-methoxyphenoxy)ethyl]amino]butyl]-, monohydrochloride (9CI) (CA INDEX NAME)

L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



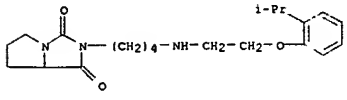
● HCl

RN 862590-20-3 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[4-[[2-(3-ethylphenoxy)ethyl]amino]butyl]tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

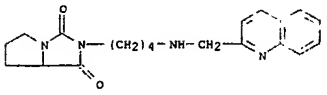
RN 862590-21-4 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[[2-[2-(1-methylethyl)phenoxy]ethyl]amino]butyl]-, monohydrochloride (9CI) (CA INDEX NAME)



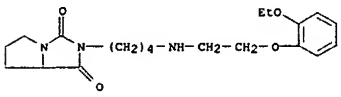
● HCl

RN 862590-23-6 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[(2-quinolinylmethyl)amino]butyl]- (9CI) (CA INDEX NAME)

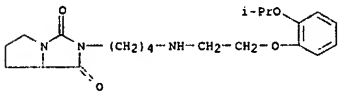
L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 862590-25-8 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[4-[[2-(2-ethoxyphenoxy)ethyl]amino]butyl]tetrahydro- (9CI) (CA INDEX NAME)



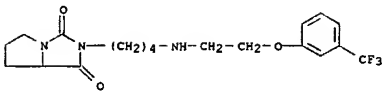
RN 862590-28-1 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[[2-[2-(1-methylethoxy)phenoxy]ethyl]amino]butyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

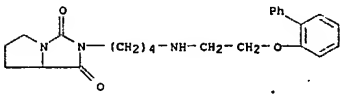
RN 862590-30-5 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[[2-[3-(trifluoromethyl)phenoxy]ethyl]amino]butyl]-, monohydrochloride (9CI) (CA INDEX NAME)

L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



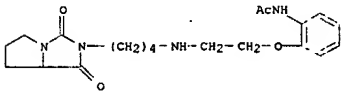
● HCl

RN 862590-32-7 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[4-[[2-([1,1'-biphenyl]-2-yloxy)ethyl]amino]butyl]tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

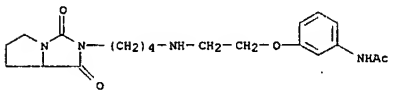
RN 862590-33-8 CAPLUS
CN Acetamide, N-[2-[2-[[4-(tetrahydro-1,3-dioxo-1H-pyrrolo[1,2-c]imidazol-2(3H)-yl)butyl]amino]ethoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

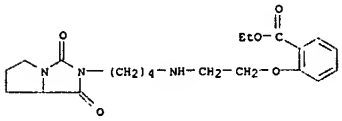
RN 862590-34-9 CAPLUS
CN Acetamide, N-[3-[2-[[4-(tetrahydro-1,3-dioxo-1H-pyrrolo[1,2-c]imidazol-2(3H)-yl)butyl]amino]ethoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX

L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
NAME)



● HCl

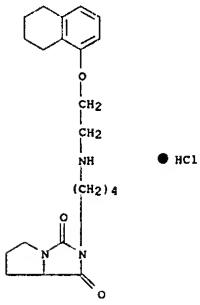
RN 862590-35-0 CAPLUS
CN Benzoic acid, 2-[2-[[4-(tetrahydro-1,3-dioxo-1H-pyrrolo[1,2-c]imidazol-2(3H)-yl)butyl]amino]ethoxy]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

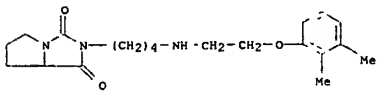
RN 862590-36-1 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[[2-[(5,6,7,8-tetrahydro-1-naphthalenyl)oxy]ethyl]amino]butyl]-, monohydrochloride (9CI)
(CA INDEX NAME)

L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● HCl

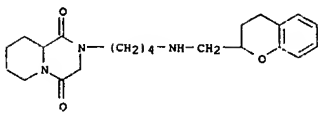
RN 862590-37-2 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[4-[[2-(2,3-dimethylphenoxy)ethyl]amino]butyl]tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 862590-38-3 CAPLUS
CN 2H-Pyrido[1,2-a]pyrazine-1,4(3H,6H)-dione, 2-[4-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]butyl]tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

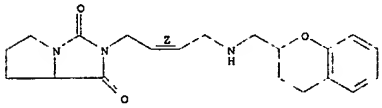
L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● HCl

RN 862590-39-4 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[(2Z)-4-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]-2-butenyl]tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

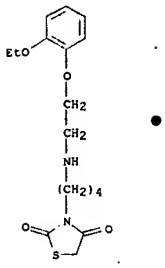
Double bond geometry as shown.



● HCl

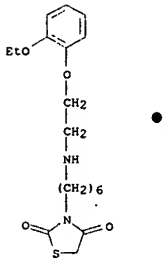
RN 862590-40-7 CAPLUS
CN 2,4-Thiazolidinedione, 3-[4-[[2-(2-ethoxyphenoxy)ethyl]amino]butyl]-, monohydrochloride (9CI) (CA INDEX NAME)

L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● HCl

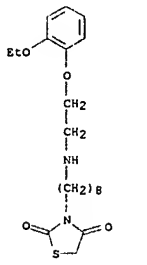
RN 862590-41-8 CAPLUS
CN 2,4-Thiazolidinedione, 3-[6-[[2-(2-ethoxyphenoxy)ethyl]amino]hexyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

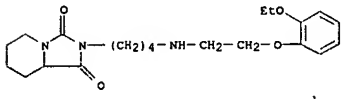
RN 862590-42-9 CAPLUS
CN 2,4-Thiazolidinedione, 3-[8-[[2-(2-ethoxyphenoxy)ethyl]amino]octyl]-, monohydrochloride (9CI) (CA INDEX NAME)

L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



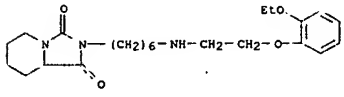
● HCl

RN 862590-43-0 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[4-[[2-(2-ethoxyphenoxy)ethyl]amino]butyl]tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

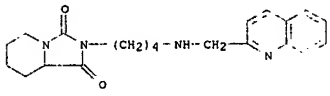
RN 862590-44-1 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[6-[[2-(2-ethoxyphenoxy)ethyl]amino]hexyl]tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

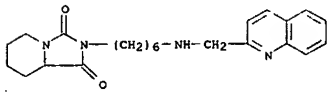
L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 862590-45-2 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, tetrahydro-2-[4-[(2-quinolinylmethyl)amino]butyl]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

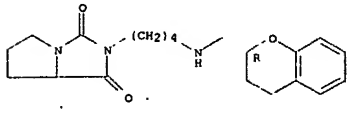
RN 862590-46-3 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, tetrahydro-2-[6-[(2-quinolinylmethyl)amino]hexyl]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

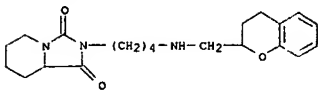
RN 862590-47-4 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[4-[[[(2R)-3,4-dihydro-2H-1-benzopyran-2-yl]methyl]amino]butyl]tetrahydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

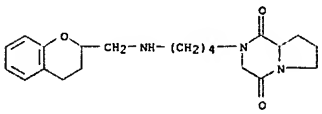


RN 862590-48-5 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[4-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]butyl]tetrahydro- (9CI) (CA INDEX NAME)

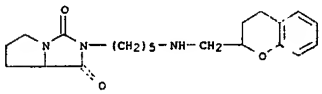
L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



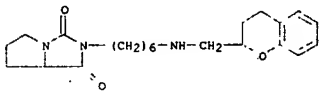
RN 862590-49-6 CAPLUS
CN Pyrrolo[1,2-a]pyrazine-1,4-dione, 2-[4-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]butyl]hexahydro- (9CI) (CA INDEX NAME)



RN 862590-50-9 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[5-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]pentyl]tetrahydro- (9CI) (CA INDEX NAME)

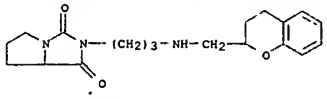


RN 862590-51-0 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[6-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]hexyl]tetrahydro- (9CI) (CA INDEX NAME)

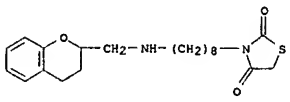


RN 862590-52-1 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[3-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]propyl]tetrahydro- (9CI) (CA INDEX NAME)

L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

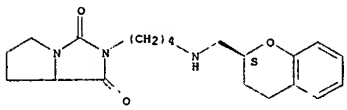


RN 862590-53-2 CAPLUS
CN 2,4-Thiazolidinedione, 3-[8-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]octyl]- (9CI) (CA INDEX NAME)



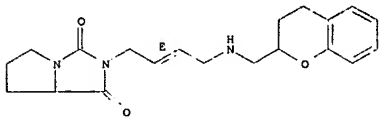
RN 862590-54-3 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[4-[[[(2S)-3,4-dihydro-2H-1-benzopyran-2-yl]methyl]amino]butyl]tetrahydro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



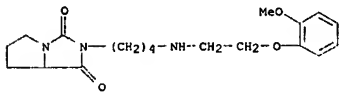
RN 862590-57-6 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[(2E)-4-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]-2-butenyl]tetrahydro- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

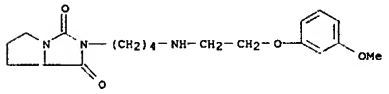


RN 862590-58-7 CAPLUS

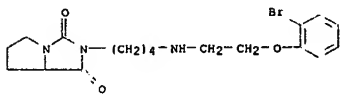
L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[[2-(2-methoxyphenoxy)ethyl]amino]butyl]- (9CI) (CA INDEX NAME)



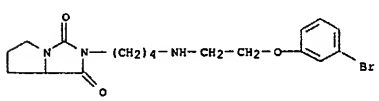
RN 862590-59-8 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[[2-(3-methoxyphenoxy)ethyl]amino]butyl]- (9CI) (CA INDEX NAME)



RN 862590-60-1 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[4-[[2-(2-bromophenoxy)ethyl]amino]butyl]tetrahydro- (9CI) (CA INDEX NAME)

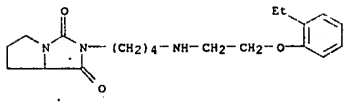


RN 862590-61-2 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[4-[[2-(3-bromophenoxy)ethyl]amino]butyl]tetrahydro- (9CI) (CA INDEX NAME)

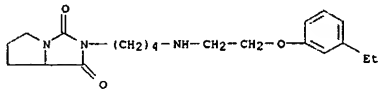


RN 862590-62-3 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[4-[[2-(2-ethylphenoxy)ethyl]amino]butyl]tetrahydro- (9CI) (CA INDEX NAME)

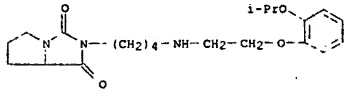
L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



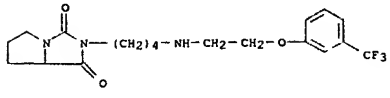
RN 862590-63-4 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[4-[[2-(3-ethylphenoxy)ethyl]amino]butyl]tetrahydro- (9CI) (CA INDEX NAME)



RN 862590-64-5 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[[2-[2-(1-methylethoxy)phenoxy]ethyl]amino]butyl]- (9CI) (CA INDEX NAME)

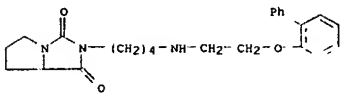


RN 862590-65-6 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[[2-[3-(trifluoromethyl)phenoxy]ethyl]amino]butyl]- (9CI) (CA INDEX NAME)

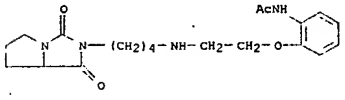


RN 862590-66-7 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[4-[[2-([1,1'-biphenyl]-2-yloxy)ethyl]amino]butyl]tetrahydro- (9CI) (CA INDEX NAME)

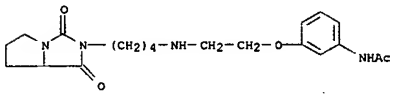
L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



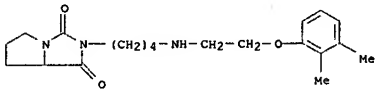
RN 862590-67-8 CAPLUS
CN Acetamide, N-[2-[2-[[4-(tetrahydro-1,3-dioxo-1H-pyrrolo[1,2-c]imidazol-2(3H)-yl)butyl]amino]ethoxy]phenyl]- (9CI) (CA INDEX NAME)



RN 862590-68-9 CAPLUS
CN Acetamide, N-[3-[2-[[4-(tetrahydro-1,3-dioxo-1H-pyrrolo[1,2-c]imidazol-2(3H)-yl)butyl]amino]ethoxy]phenyl]- (9CI) (CA INDEX NAME)

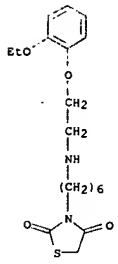


RN 862590-69-0 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[4-[[2-(2,3-dimethylphenoxy)ethyl]amino]butyl]tetrahydro- (9CI) (CA INDEX NAME)

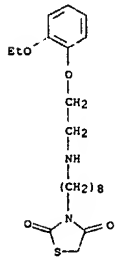


RN 862590-70-3 CAPLUS
CN 2H-Pyrido[1,2-a]pyrazine-1,4(3H,6H)-dione, 2-[4-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]butyl]tetrahydro- (9CI) (CA INDEX NAME)

L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
(CA INDEX NAME)

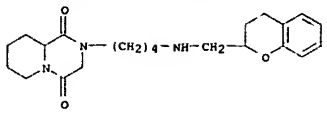


RN 862590-74-7 CAPLUS
CN 2,4-Thiazolidinedione, 3-[8-[[2-(2-ethoxyphenoxy)ethyl]amino]octyl]- (9CI)
(CA INDEX NAME)



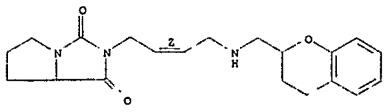
RN 862590-75-8 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[4-[[2-(2-ethoxyphenoxy)ethyl]amino]butyl]tetrahydro- (9CI) (CA INDEX NAME)

L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

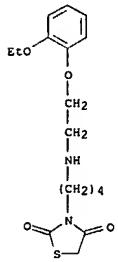


RN 862590-71-4 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[(2Z)-4-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]-2-butenyl]tetrahydro- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

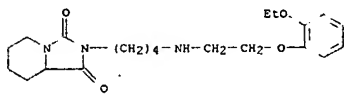


RN 862590-72-5 CAPLUS
CN 2,4-Thiazolidinedione, 3-[4-[[2-(2-ethoxyphenoxy)ethyl]amino]butyl]- (9CI)
(CA INDEX NAME)

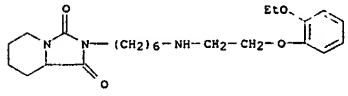


RN 862590-73-6 CAPLUS
CN 2,4-Thiazolidinedione, 3-[6-[[2-(2-ethoxyphenoxy)ethyl]amino]hexyl]- (9CI)

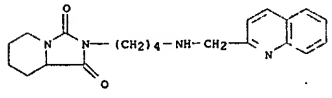
L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



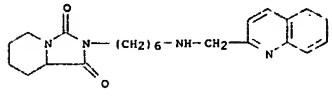
RN 862590-76-9 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[6-[[2-(2-ethoxyphenoxy)ethyl]amino]hexyl]tetrahydro- (9CI) (CA INDEX NAME)



RN 862590-77-0 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, tetrahydro-2-[4-[(2-quinolinylmethyl)amino]butyl]- (9CI) (CA INDEX NAME)

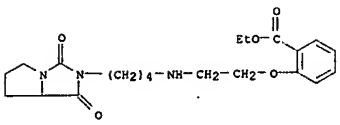


RN 862590-78-1 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, tetrahydro-2-[6-[(2-quinolinylmethyl)amino]hexyl]- (9CI) (CA INDEX NAME)

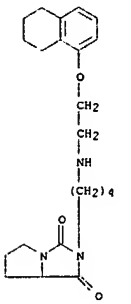


RN 862591-00-2 CAPLUS
CN Benzoic acid, 2-[2-[[4-(tetrahydro-1,3-dioxo-1H-pyrrolo[1,2-c]imidazol-2(3H)-yl)butyl]amino]ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

L10 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 862591-01-3 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[[2-[(5,6,7,8-tetrahydro-1-naphthalenyl)oxy]ethyl]amino]butyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

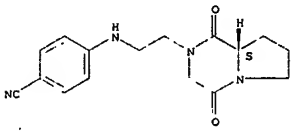
L10 ANSWER 2 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:370486 CAPLUS
DOCUMENT NUMBER: 142:475285
TITLE: Quantitative structure-activity relationship of dipeptidyl peptidase IV inhibitors
AUTHOR(S): Xiao, Jing-Fa; Guo, Zong-Ru; Guo, Yan-Shen; Chu, Feng-Ming; Sun, Piao-Yang
CORPORATE SOURCE: Institute of Materia Medica, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, 100050, Peop. Rep. China
SOURCE: Huaxue Xuebao (2005), 63(8), 757-763
CODEN: HHHPA4; ISSN: 0567-7351
PUBLISHER: Kexue Chubanshe
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

AB Dipeptidyl peptidase IV is a critical enzyme of potential value in the treatment of type 2 diabetes. A 3D-QSAR model was obtained by using comparative mol. field anal. (CoMFA) on a series of N-substituted-glycyl-2-cyanopyrrolidine derivs. with highly potent and selective inhibition for dipeptidyl peptidase IV. The final QSAR model was developed by CoMFA analyses, with q2=0.575 and r2=0.981. The predictive ability of this model was validated by seven compds. that were not included in the training set. The robust QSAR model and its three-dimensional contour map provided guidelines to build novel compds. with new scaffold and structural optimization of current mols.

IT 852108-50-0
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); PRP (Properties); BIOL (Biological study)
(QSAR of dipeptidyl peptidase IV inhibitors)

RN 852108-50-0 CAPLUS
CN Benzonitrile, 4-[[2-[(8aS)-hexahydro-1,4-dioxopyrrolo[1,2-a]pyrazin-2(1H)-yl]ethyl]amino]- (9CI) (CA INDEX NAME)

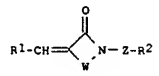
Absolute stereochemistry.



L10 ANSWER 3 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:260032 CAPLUS
DOCUMENT NUMBER: 142:336364
TITLE: Preparation of thiazolidinedione and 3,4-dihydropyrazol-3-ones as plasminogen activator inhibitor-1 inhibitors
INVENTOR(S): Muto, Susumu; Kubo, Asako; Itai, Akiko; Sotome, Tomomi; Yamaguchi, Yoichi
PATENT ASSIGNEE(S): Institute of Medicinal Molecular Design. Inc., Japan
SOURCE: PCT Int. Appl., 438 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005026127	A1	20050324	WO 2004-JP13193	20040903
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1666469	A1	20060607	EP 2004-772932	20040903
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
PRIORITY APPLN. INFO.:			JP 2003-319191	A 20030911
			WO 2004-JP13193	W 20040903

OTHER SOURCE(S): MARPAT 142:336364
GI



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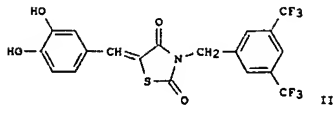


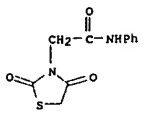
II

L10 ANSWER 3 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

AB A medicine having plasminogen activator inhibitor-1 (PAI-1) inhibiting activity comprises as an active ingredient a compound of the general formula (I) [wherein R1, R2 = (un)substituted aromatic groups; W = a group selected from among linkage groups of formulas -X-C(:X)- and -C(R3):N- (wherein the left side bonds effect linkage with a carbon atom while the right side bonds effect linkage with a nitrogen atom; X = sulfur atom or NH; Y = oxygen or sulfur atom; R3 = a hydrocarbon group, hydroxyl, or carboxyl); Z = a single bond or a linkage group whose main chain has 1 to 3 atoms] or a salt thereof. This medicine is useful for the prevention and/or treatment of diseases caused by increased activity of PAI-1 or diseases caused by ≥2 of unusual states selected from thrombogenesis, fibrosis, organ fat accumulation, cell proliferation, angiogenesis, deposition or reconstruction of outer cellular matrix, and cell migration or metastasis. Thus, a mixture of 0.15 mmol 3,4-dihydroxybenzaldehyde, 0.15 mmol 3-[3,5-bis(trifluoromethyl)benzyl]thiazolidine-2,4-dione, and 4 mL toluene was treated with two drops of AcOH and two drops of piperidine and heated at 90° for 40 min to give 5-(3,4-dihydroxybenzylidene)-3-[3,5-bis(trifluoromethyl)benzyl]thiazolidine-2,4-dione (II). II at 25 μM in vitro inhibited >99% inactivation of 2-chain tissue-type plasminogen activator (tPA) by human PAI-1.

IT 450390-34-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of thiazolidinedione and dihydropyrazolones as plasminogen activator inhibitor-1 inhibitors)

RN 450390-34-8 CAPLUS
CN 3-Thiazolidineacetamide, 2,4-dioxo-N-phenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

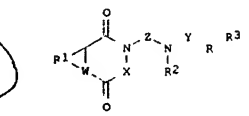
FORMAT

L10 ANSWER 4 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:143157 CAPLUS
DOCUMENT NUMBER: 140:181451
TITLE: Preparation of fused heterocycles as 5-HT1A receptor agonists
INVENTOR(S): Del Rio, Zambrana Joaquin; Frechilla Manso, Diana; Lopez Rodriguez, Luz M.; Benhamu Salama, Bellinda; Fuentes Cubero, Jose Angel; Delgado Wallace, Mercedes
PATENT ASSIGNEE(S): Cepa Schwarz Pharma S.L., Spain
SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Spanish
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

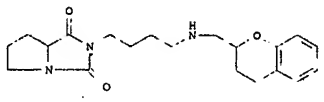
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004014915	A1	20040219	WO 2003-ES394	20030729
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
ES 2199086	A1	20040201	ES 2002-1811	20020731
ES 2199086	B1	20050601		
CA 2492837	AA	20040219	CA 2003-2492837	20030729
AU 2003254512	A1	20040225	AU 2003-254512	20030729
BR 2003013375	A	20050621	BR 2003-13375	20030729
EP 1544201	A1	20050622	EP 2003-784210	20030729
EP 1544201	B1	20060628		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1671708	A	20050921	CN 2003-818339	20030729
JP 2005539017	T2	20051222	JP 2004-526925	20030729
AT 331717	E	20060715	AT 2003-784210	20030729
NZ 538489	A	20060929	NZ 2003-538489	20030729
US 2005250777	A1	20051110	US 2005-522697	20050127
NO 2005001068	A	20050225	NO 2005-1068	20050225

PRIORITY APPLN. INFO.: ES 2002-1811 A 20020731
WO 2003-ES394 W 20030729

OTHER SOURCE(S): MARPAT 140:181451
GI



I



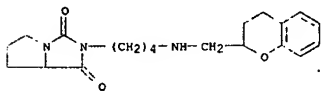
II

AB Title compds. I [wherein R1 = H, (CH2)3, (CH2)4, CH2-S-CH2, S-CH2-CH2; W = N, S; X = (CH2)n; n = 0 or 1; Z = alk(en/yn)yl; R2 = H, aryl, ar/alkyl; Y = (CH2)m; m = 0-2; R = O, CH2; R3 = (un)substituted Ph, naphthyl, tetrahydronaphthyl, furyl, thiophenyl, pyrrolyl, pyridinyl, benzimidazolyl, quinolinyl, isoquinolinyl, chromanyl, etc.] were prepared as agonists of serotonin receptor subtype (5- hydroxytryptamine, 5-HT) 5-HT1A and which are hence useful in the treatment of pathol. states for which an agonist of said receptors is indicated. Twenty-one product characterizations and five biol. examples are given. I were prepared by N-alkylations of amines with organic halides in CH3CN at 60° for 6-24 h (no specific examples are given). In an in vitro test, II inhibited the forskolin-stimulated adenylate cyclase activity of He-La cells transfected with the human 5HT1A receptor with CE50 = 16.3 nM. In a rat permanent focal ischemic model for middle cerebral artery occlusion, II exhibited a 25% reduction in the infarct volume when administered i.v.. Thus, I are neuroprotective agents used for treatment and prophylaxis of cerebral damage caused by ischemic or traumatic stroke.

IT 658714-55-7P, (±)-2-[4-[(Chroman-2-yl)methylamino]butyl]-1,3-dioxoperhydropyrrolo[1,2-c]imidazole 658714-56-8P, (.-+.)-2-[4-[[(Chroman-2-yl)methyl]amino]butyl]-1,3-dioxoperhydroimidazo[1,5-b]thiazole 658714-57-9P, (.-+.)-2-[4-[[(Chroman-2-yl)methyl]amino]butyl]-1,3-dioxoperhydroimidazo[1,5-c]thiazole 658714-58-0P, (±)-3-[4-[[(Chroman-2-yl)methyl]amino]butyl]-2,4-dioxothiazolidine 658714-59-1P, .(.-+.)-3-[5-[(Chroman-2-yl)methylamino]pentyl]-2,4-dioxothiazolidine 658714-60-4P, (±)-3-[6-[[(Chroman-2-yl)methyl]amino]hexyl]-2,4-dioxothiazolidine 658714-61-5P 658714-62-6P 658714-63-7P 658714-64-8P, 3-[4-[2-(Naphth-1-yl)ethylamino]butyl]-2,4-dioxothiazolidine 658714-65-9P 658714-66-0P 658714-67-1P,

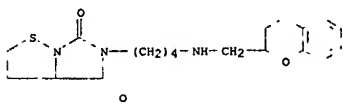
L10 ANSWER 4 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
3-[4-[2-(Phenoxy)ethylamino]butyl]-2,4-dioxothiazolidine 658714-68-2P 658714-69-3P 658714-70-6P 658714-71-7P 658714-72-8P 658714-73-9P 658714-75-1P 658714-76-2P 658714-77-3P 658714-78-4P 658714-79-5P 658714-80-8P 658714-81-9P 658714-82-0P 658714-83-1P 658714-84-2P 658714-85-3P 658714-86-4P 658714-87-5P 658714-88-6P 658714-89-7P 658714-90-0P 658714-91-1P 658714-92-2P 658714-94-4P 658714-95-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(5-HT1A receptor agonist; prepn. of fused heterocycles as 5-HT1A receptor agonists)

RN 658714-55-7 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[4-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]butyl]tetrahydro- (9CI) (CA INDEX NAME)



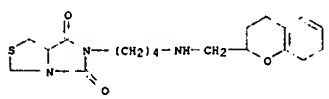
548/302.7
514/387

RN 658714-56-8 CAPLUS
CN Imidazo[1,5-b]isothiazole-4,6(2H,5H)-dione, 5-[4-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]butyl]dihydro- (9CI) (CA INDEX NAME)



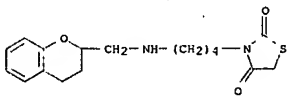
548/303.7

RN 658714-57-9 CAPLUS
CN 1H,3H-Imidazo[1,5-c]thiazole-5,7(6H,7aH)-dione, 6-[4-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]butyl]- (9CI) (CA INDEX NAME)



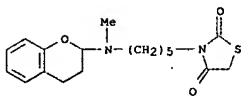
RN 658714-58-0 CAPLUS
CN 2,4-Thiazolidinedione, 3-[4-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]butyl]- (9CI) (CA INDEX NAME)

L10 ANSWER 4 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

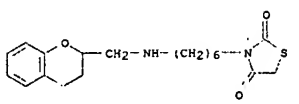


548/183
514/369

RN 658714-59-1 CAPLUS
CN 2,4-Thiazolidinedione, 3-[5-[(3,4-dihydro-2H-1-benzopyran-2-yl)methylamino]pentyl]- (9CI) (CA INDEX NAME)

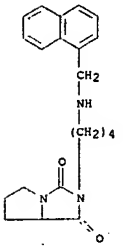


RN 658714-60-4 CAPLUS
CN 2,4-Thiazolidinedione, 3-[6-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]hexyl]- (9CI) (CA INDEX NAME)

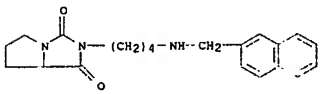


RN 658714-61-5 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[(1-naphthalenylmethyl)amino]butyl]- (9CI) (CA INDEX NAME)

L10 ANSWER 4 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

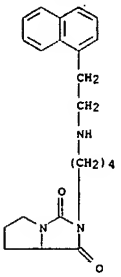


RN 658714-62-6 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[(2-naphthalenylmethyl)amino]butyl]- (9CI) (CA INDEX NAME)

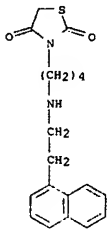


RN 658714-63-7 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[[2-(1-naphthalenyl)ethyl]amino]butyl]- (9CI) (CA INDEX NAME)

L10 ANSWER 4 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



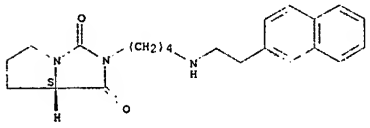
RN 658714-64-8 CAPLUS
CN 2,4-Thiazolidinedione, 3-[4-[[2-(1-naphthalenyl)ethyl]amino]butyl]- (9CI) (CA INDEX NAME)



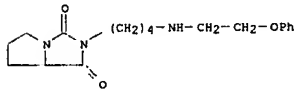
RN 658714-65-9 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[[2-(2-naphthalenyl)ethyl]amino]butyl]-, (7aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

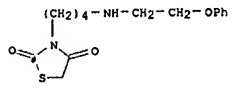
L10 ANSWER 4 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 658714-66-0 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[(2-phenoxyethyl)amino]butyl]- (9CI) (CA INDEX NAME)

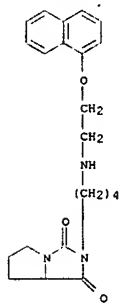


RN 658714-67-1 CAPLUS
CN 2,4-Thiazolidinedione, 3-[4-[(2-phenoxyethyl)amino]butyl]- (9CI) (CA INDEX NAME)

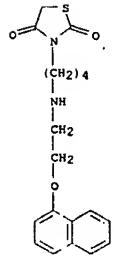


RN 658714-68-2 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[[2-(1-naphthalenyloxy)ethyl]amino]butyl]- (9CI) (CA INDEX NAME)

L10 ANSWER 4 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

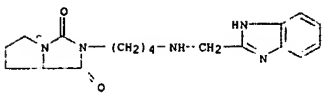


RN 658714-69-3 CAPLUS
CN 2,4-Thiazolidinedione, 3-[4-[[2-(1-naphthalenyloxy)ethyl]amino]butyl]- (9CI) (CA INDEX NAME)



RN 658714-70-6 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[4-[(1H-benzimidazol-2-ylmethyl)amino]butyl]tetrahydro- (9CI) (CA INDEX NAME)

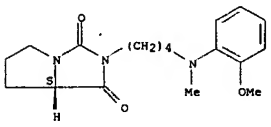
L10 ANSWER 4 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



548

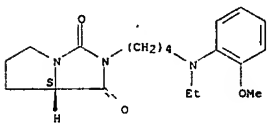
RN 658714-71-7 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[(2-methoxyphenyl)methylamino]butyl]-, (7aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

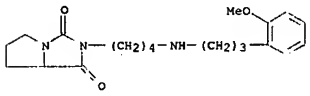


RN 658714-72-8 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[4-[ethyl(2-methoxyphenyl)amino]butyl]tetrahydro-, (7aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



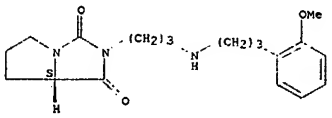
RN 658714-73-9 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[[3-(2-methoxyphenyl)propyl]amino]butyl]- (9CI) (CA INDEX NAME)



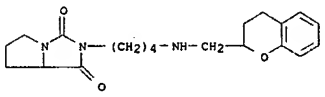
L10 ANSWER 4 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 658714-75-1 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[3-[[3-(2-methoxyphenyl)propyl]amino]propyl]-, (7aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

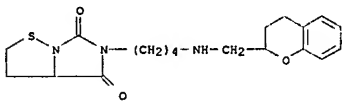


RN 658714-76-2 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[4-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]butyl]tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

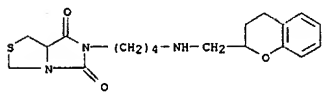
RN 658714-77-3 CAPLUS
CN Imidazo[1,5-b]isothiazole-4,6(2H,5H)-dione, 5-[4-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]butyl]dihydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

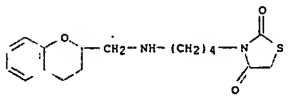
L10 ANSWER 4 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 658714-78-4 CAPLUS
CN 1H,3H-Imidazo[1,5-c]thiazole-5,7(6H,7aH)-dione, 6-[4-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]butyl]-, monohydrochloride (9CI) (CA INDEX NAME)



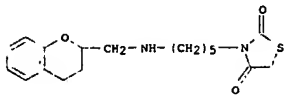
● HCl

RN 658714-79-5 CAPLUS
CN 2,4-Thiazolidinedione, 3-[4-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]butyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

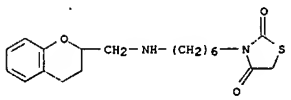
RN 658714-80-8 CAPLUS
CN 2,4-Thiazolidinedione, 3-[5-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]pentyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

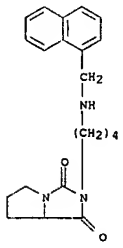
RN 658714-81-9 CAPLUS
CN 2,4-Thiazolidinedione, 3-[6-[[(3,4-dihydro-2H-1-benzopyran-2-yl)methyl]amino]hexyl]-, monohydrochloride (9CI) (CA INDEX NAME)

L10 ANSWER 4 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● HCl

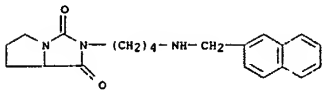
RN 658714-82-0 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[(1-naphthalenylmethyl)amino]butyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 658714-83-1 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[(2-naphthalenylmethyl)amino]butyl]-, monohydrochloride (9CI) (CA INDEX NAME)

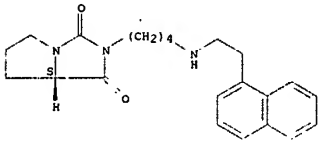
L10 ANSWER 4 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● HCl

RN 658714-84-2 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[[2-(1-naphthalenyl)ethyl]amino]butyl]-, monohydrochloride, (7aS)- (9CI) (CA INDEX NAME)

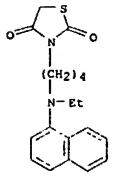
Absolute stereochemistry.



● HCl

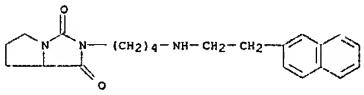
RN 658714-85-3 CAPLUS
CN 2,4-Thiazolidinedione, 3-[4-(ethyl-1-naphthalenylamino)butyl]-, monohydrochloride (9CI) (CA INDEX NAME)

L10 ANSWER 4 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● HCl

RN 658714-86-4 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[[2-(2-naphthalenyl)ethyl]amino]butyl]-, monohydrochloride (9CI) (CA INDEX NAME)

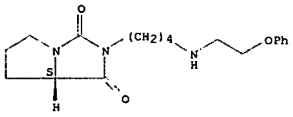


● HCl

RN 658714-87-5 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[(2-phenoxyethyl)amino]butyl]-, monohydrochloride, (7aS)- (9CI) (CA INDEX NAME)

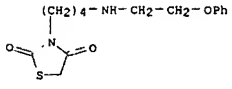
Absolute stereochemistry.

L10 ANSWER 4 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● HCl

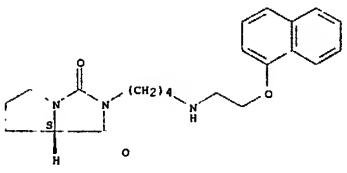
RN 658714-88-6 CAPLUS
CN 2,4-Thiazolidinedione, 3-[4-[(2-phenoxyethyl)amino]butyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 658714-89-7 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[(2-(1-naphthalenyloxy)ethyl]amino]butyl]-, monohydrochloride, (7aS)- (9CI) (CA INDEX NAME)

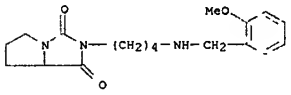
Absolute stereochemistry.



● HCl

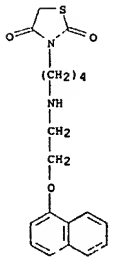
RN 658714-90-0 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[[(2-

L10 ANSWER 4 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
methoxyphenyl)methyl]amino]butyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 658714-91-1 CAPLUS
CN 2,4-Thiazolidinedione, 3-[4-[[2-(1-naphthalenyloxy)ethyl]amino]butyl]-, monohydrochloride (9CI) (CA INDEX NAME)

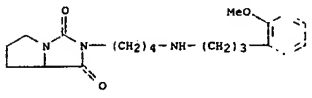


● HCl

5481

RN 658714-92-2 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[4-[[3-(2-methoxyphenyl)propyl]amino]butyl]-, monohydrochloride (9CI) (CA INDEX NAME)

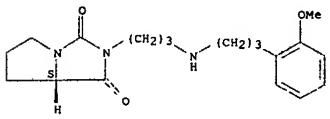
L10 ANSWER 4 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● HCl

RN 658714-94-4 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, tetrahydro-2-[3-[[3-(2-methoxyphenyl)propyl]amino]propyl]-, monohydrochloride, (7aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

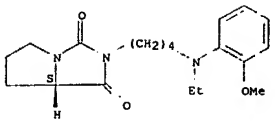


● HCl

RN 658714-95-5 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[4-[ethyl(2-methoxyphenyl)amino]butyl]tetrahydro-, monohydrochloride, (7aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L10 ANSWER 4 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



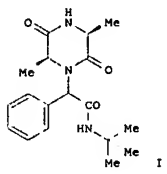
● HCl

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L10 ANSWER 5 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:957364 CAPLUS
DOCUMENT NUMBER: 140:357637
TITLE: An efficient synthesis of 2,5-diketopiperazine derivatives by the Ugi four-center three-component reaction
AUTHOR(S): Cho, Sangwon; Keum, Gyochang; Kang, Soon Bang; Han, So-Yeop; Kim, Youseung
CORPORATE SOURCE: Biochemicals Research Center, Korea Institute of Science and Technology, Seoul, Cheongryang, 130-650, S. Korea
SOURCE: Molecular Diversity (2003), 6(3-4), 283-286
CODEN: MODIF4; ISSN: 1381-1991
PUBLISHER: Kluwer Academic Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 140:357637
GI



I

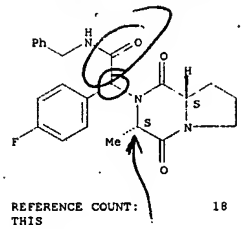
AB A facile synthetic approach to 2,5-diketopiperazines, such as I, by the Ugi four-center three-component reaction using com. available dipeptides as a bifunctional component, aldehydes, and isocyanides was described.

IT 682153-07-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of 2,5-diketopiperazine derivs. via a Ugi four-center three-component stereoselective cyclization of dipeptides, aldehydes and isocyanides)

RN 682153-07-7 CAPLUS
CN Pyrrolo[1,2-a]pyrazine-2(1H)-acetamide, α-(4-fluorophenyl)hexahydro-3-methyl-1,4-dioxo-N-(phenylmethyl)-, (3S,8aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L10 ANSWER 5 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

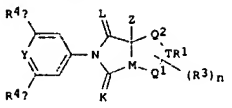
L10 ANSWER 6 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:428909 CAPLUS
DOCUMENT NUMBER: 137:6181
TITLE: Preparation of fused hydantoins as antiinflammatories.
INVENTOR(S): Iwanowicz, Edwin J.; Dhar, Murali T. G.; Launay, Michele; Potin, Dominique; Maillet, Magali Jeannine Blandine; Nicolai, Eric Antoine
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA; CEREP SA
SOURCE: PCT Int. Appl., 72 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002044181	A1	20020606	WO 2001-US45540	20011130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002027128	A5	20020611	AU 2002-27128	20011130
US 2002143035	A1	20021003	US 2001-389	20011130
US 6710064	B2	20040323		
CA 2436943	AA	20030606	CA 2001-2436943	20011130
EP 1339718	A1	20030903	EP 2001-996064	20011130
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
HU 200400531	A2	20040628	HU 2004-531	20011130
JP 2004519435	T2	20040702	JP 2002-546551	20011130

PRIORITY APPLN. INFO.: US 2000-250486P P 20001201
US 2000-250653P P 20001201
US 2001-272165P P 20010228
US 2001-727165P P 20010228
WO 2001-US45540 W 20011130

OTHER SOURCE(S): MARPAT 137:6181
GI

L10 ANSWER 6 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



I

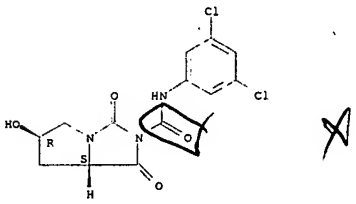
AB Title compds. [I; L, K = O, S; M = N, CH; Y = CH, N; Z = H, (substituted) alkyl; T = N, CH, CR3; R1 = QX; X = (hetero)aryl; Q = bond, O, NR10, S, CO, CO2, NR10CO, NR10CO2, (substituted) alkylene, alkenylene, bivalent alkoxy, alkylthio, alkylamino, aminoalkyl, alkylsulfonyl, alkylsulfonamide, acyl, alkoxycarbonyl; R1R3 = fused carbocyclyl, heterocyclyl; R3 = halo, (substituted) alkyl, alkenyl, alkynyl, NO2, cyano, OR8, NR8R9, CO2R8, COR8, CONR8R9, NR8COR9, NR8CO2R9, OC(O)R8, OC(O)NR8R9, SR8, SOqR8a, NR8SO2Rq, SO2NR5Rq, aryl, heteroaryl, heterocyclo, cycloalkyl, O; 2 adjacent R3 form a (substituted) carbocyclic or heterocyclic fused ring; R4a, R4b = H, halo, (substituted) alkyl, alkenyl, alkynyl, NO2, cyano, OH, alkoxy, alkoxy, PhO, PhCH2O, CO2H, CHO, amino, CO2A, COA, alkylthio; A = alkyl; R8, R9 = H, (substituted) alkyl, alkenyl, alkynyl, alkoxy, cycloalkyl, aryl, heteroaryl, heterocyclyl; R8R9 = atoms to form a heterocyclic ring; R8a = (substituted) alkyl, cycloalkyl, aryl, heteroaryl, heterocyclo; R10 = H, (substituted) alkyl; Q1 = (CH2)s; Q2 = (CH2)r; n, s = 0, 1, 2; q = 1, 2, 3; r = 1, 2; with provisos], were prepared as inhibitors of leukointegrin/ICAM associated conditions (no data). Thus, a mixture of (7aS,6R)-2-(3,5-dichlorophenyl)-6-hydroxytetrahydropyrrolo[1,2-c]imidazole-1,3-dione (preparation given), Ph3P, and 4-bromophenol in THF at 0° was treated with diisopropyl azodicarboxylate (DIAD) in THF followed by warming to room temperature overnight to give (7aS,6S)-2-(3,5-dichlorophenyl)-6-(4-bromophenoxy)tetrahydropyrrolo[1,2-c]imidazole-1,3-dione.

IT 433289-46-4P 433289-47-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of fused hydantoins as antiinflammatories)

RN 433289-46-4 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-2(3H)-carboxamide, N-(3,5-dichlorophenyl)tetrahydro-6-hydroxy-1,3-dioxo-, (6R,7aS)- (9CI) (CA INDEX NAME)

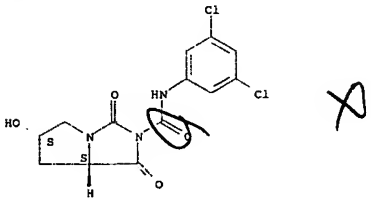
Absolute stereochemistry.

L10 ANSWER 6 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 433289-47-5 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-2(3H)-carboxamide, N-(3,5-dichlorophenyl)tetrahydro-6-hydroxy-1,3-dioxo-, (6S,7aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



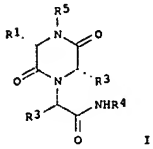
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 7 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:613947 CAPLUS
DOCUMENT NUMBER: 131:243287
TITLE: Preparation of dioxopiperazinoacetamides as fructose-1,6-bisphosphatase inhibitors
INVENTOR(S): Mjalli, Adnan M. M.; Mason, James Christopher; Arienti, Kristen Lee; Short, Kevin Michael; Kimmich, Rachel Denise Anne; Jones, Todd Kevin
PATENT ASSIGNEE(S): Ontogen Corporation, USA
SOURCE: PCT Int. Appl., 74 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9947549	A1	19990923	WO 1999-US5552	19990315
W: AU, CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2289621	AA	19990923	CA 1999-2289621	19990315
AU 9930870	A1	19991011	AU 1999-30870	19990315
US 6107274	A	20000822	US 1999-270121	19990315
EP 1070084	A1	20010124	EP 1999-912505	19990315
R: DE, FR, GB				
JP 2001294586	A2	20011023	JP 2000-386045	19990315

PRIORITY APPLN. INFO.: US 1998-78065P P 19980316
WO 1999-US5552 W 19990315

OTHER SOURCE(S): MARPAT 131:243287
GI

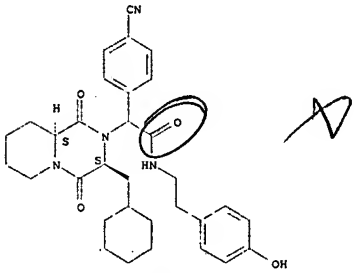


I

AB Title compds. [I; R1 = cycloalkyl or aralkyl; R2 = cycloalkylmethyl or (ar)alkyl; R3 = H, F, alkyl, substituted Ph; R4 = H, alkyl, acyl, substituted Ph; R5 = H; R1R5 = atoms to complete a ring] were prepared Thus, L-R2CH(NH2)CO2Me.HCl (R2 = cyclohexyl), 4-(NC)C6H4CHO, N-Fmoc-1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid, and 4-(CNH2CH2C)C6H4OCH2Ph were subjected to Ugi condensation and the product cyclized to give, after deprotection, I [R1R5 = 2-(H2C)C6H4CH2, R2 = cyclohexylmethyl, R3 = 4-(NC)C6H4, R4 = CH2CH2C6H4(OH)-4]. Data for biol.

L10 ANSWER 7 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
activity of I were given.
IT 244220-67-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of dioxopiperazinoacetamides as fructose-1,6-bisphosphatase
inhibitors)
RN 244220-67-5 CAPLUS
CN 2H-Pyrido[1,2-a]pyrazine-2-acetamide, α-(4-cyanophenyl)-3-(cyclohexylmethyl)octahydro-N-[2-(4-hydroxyphenyl)ethyl]-1,4-dioxo-, (3S,9aS)- (9CI) (CA INDEX NAME)

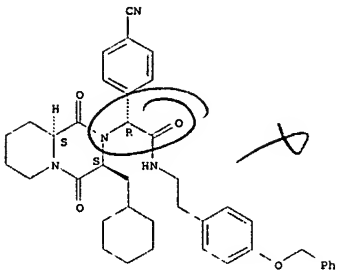
Absolute stereochemistry.



IT 244221-00-9P 244221-01-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of dioxopiperazinoacetamides as fructose-1,6-bisphosphatase
inhibitors)
RN 244221-00-9 CAPLUS
CN 2H-Pyrido[1,2-a]pyrazine-2-acetamide, α-(4-cyanophenyl)-3-(cyclohexylmethyl)octahydro-1,4-dioxo-N-[2-[4-(phenylmethoxy)phenyl]ethyl]-, (αR,3S,9aS)- (9CI) (CA INDEX NAME)

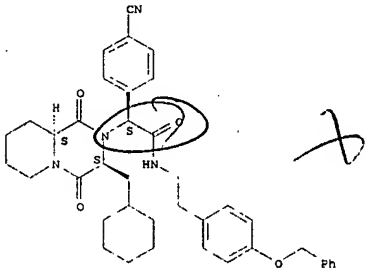
Absolute stereochemistry.

L10 ANSWER 7 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 244221-01-0 CAPLUS
CN 2H-Pyrido[1,2-a]pyrazine-2-acetamide, α-(4-cyanophenyl)-3-(cyclohexylmethyl)octahydro-1,4-dioxo-N-[2-[4-(phenylmethoxy)phenyl]ethyl]-, (αS,3S,9aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

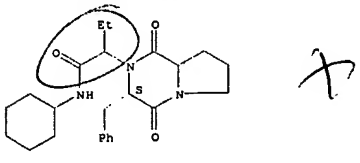
L10 ANSWER 7 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L10 ANSWER 8 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1998:653552 CAPLUS
DOCUMENT NUMBER: 129:276351
TITLE: Method for synthesis of diketopiperazine and diketomorpholine derivatives
INVENTOR(S): Szardenings, Anna Katrin; Campbell, David
PATENT ASSIGNEE(S): Affymax Technologies N.V., UK
SOURCE: U.S., 25 pp., Cont.-in-part of U.S. Ser. No. 670,713.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5817751	A	19981006	US 1996-731362	19961011
US 5990112	A	19991123	US 1996-670713	19960618
PRIORITY APPLN. INFO.:			US 1994-265578	B2 19940623
			US 1995-393318	B2 19950222
			US 1996-670713	A2 19960618

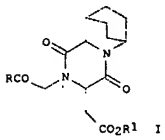
AB Diketopiperazine and diketomorpholine derivs. were synthesized via multicomponent reactions. Thus, hydroxymethyl PAM resin was coupled with Fmoc-Asp(OtBu)-OH (Mukaiyama conditions) and reductively alkylated with propionaldehyde. Coupling with Boc-Phe-OH using HOAt/DIC and Boc deprotection afforded 2-[5-benzyl-3,6-dioxo-1-propyl-(2S,5S)-perhydro-2-pyrazinyl]acetic acid.
IT 213894-58-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(method for synthesis of diketopiperazine and diketomorpholine derivs.)
RN 213894-58-7 CAPLUS
CN Pyrrolo[1,2-a]pyrazine-2(1H)-acetamide, N-cyclohexyl-α-ethylhexahydro-1,4-dioxo-3-(phenylmethyl)-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 9 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1998:282727 CAPLUS
DOCUMENT NUMBER: 129:16379
TITLE: A constrained diketopiperazine as a new scaffold for the synthesis of peptidomimetics
AUTHOR(S): Pons, Jean-Francois; Fauchere, Jean-Luc; Lamaty, Frederic; Molla, Annie; Lazaro, Rene
CORPORATE SOURCE: Laboratoire Aminoacides Peptides Proteines, Universite Montpellier II, Montpellier, F-34095, Fr.
SOURCE: European Journal of Organic Chemistry (1998), (5), 853-859
CODEN: EJOCFK; ISSN: 1434-193X
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

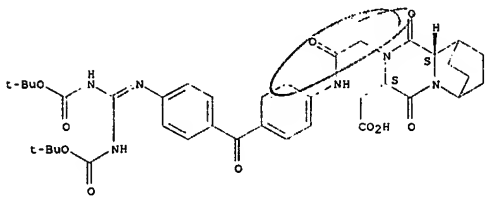


I

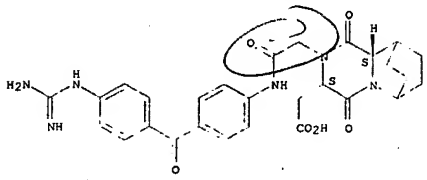
AB As a new scaffold for peptidomimetic synthesis, the highly constrained, bifunctional diketopiperazine I (R = OH, R1 = Me) was prepared by smooth N-alkylation with BrCH2CO2CMe3. As a first application, the authors describe herein the synthesis of new peptidomimetics of the Arg-Gly-Asp (RGD) sequence. The product I [R = 4-(HN:CNH2)C6H4NHCOCH2NH, R1 = H], which shows a selective platelet-aggregation inhibiting activity, can be used as a lead for the preparation of more potent products.
IT 207725-98-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and platelet-aggregation inhibiting activity of diketopiperazine-based peptidomimetics)
RN 207725-98-2 CAPLUS
CN 6,9-Ethano-2H-pyrido[1,2-a]pyrazine-3-acetic acid, 2-[2-[[4-[[4-[(aminoiminomethyl)amino]benzoyl]phenyl]amino]-2-oxoethyl]octahydro-1,4-dioxo-, (3S,9aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

L10 ANSWER 9 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

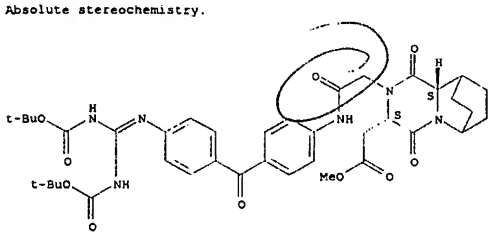


L10 ANSWER 9 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



IT 207725-96-0P 207725-97-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and platelet-aggregation inhibiting activity of diketopiperazine-based peptidomimetics)
RN 207725-96-0 CAPLUS
CN 6,9-Ethano-2H-pyrido[1,2-a]pyrazine-3-acetic acid, 2-[2-[[4-[4-[[bis[[(1,1-dimethylethoxy)carbonyl]amino]methylene]amino]benzoyl]phenyl]amino]-2-oxoethyl]octahydro-1,4-dioxo-, methyl ester, (3S,9aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



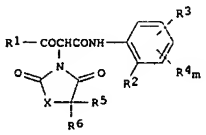
RN 207725-97-1 CAPLUS
CN 6,9-Ethano-2H-pyrido[1,2-a]pyrazine-3-acetic acid, 2-[2-[[4-[4-[[bis[[(1,1-dimethylethoxy)carbonyl]amino]methylene]amino]benzoyl]phenyl]amino]-2-oxoethyl]octahydro-1,4-dioxo-, (3S,9aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L10 ANSWER 10 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1998:47839 CAPLUS
DOCUMENT NUMBER: 128:174062
TITLE: Silver halide color photographic material containing a DIR coupler and black colloidal silver particles
INVENTOR(S): Ishii, Yoshio; Obayashi, Keishi; Kawakishi, Toshio
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 84 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10010689	A2	19980116	JP 1996-182664	19960625
JP 3566465	B2	20040915		
PRIORITY APPLN. INFO.:			JP 1996-182664	19960625

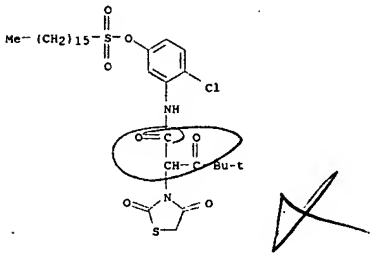
GI



I

AB Claimed color photog. material having ≤1 each of blue-, green- and red-sensitive Ag halide emulsion layer and a light-insensitive hydrophilic colloid layer on a support contains (1) black colloidal Ag particles in the light-insensitive layer located at the surface side of the emulsion layer nearest to the support and (2) a yellow coupler I (R1 = tert.-alkyl; R2 = halo, alkoxy, aryloxy, alkyl, alkylsulfonyloxy, cycloalkyl; R3 = alkoxycarbonyl, alkylsulfonyloxy; R4 = halo, alkyl, alkoxy, carbonamide, sulfoamido; m = 0-2; R5, R6 = H, alkyl; X = O, S, NR2); R2 = H, alkyl, aryl) and a development inhibitor-releasing coupler A(TIME)nDI (A = timing group cleavaging the moiety (TIME)nDI; n = 0-3) in the blue-sensitive emulsion layer. It provides an image with low fog, good image sharpness and good color reproduction quality, and suitably used as multilayer color neg. materials. Neutral gray Ag particles are similar to the colloidal Ag for the antihalation layer, and suitably added to the 2nd protective layer, providing the neutral d. of 0.02-0.5. Preferable yellow coupler (I) are 1-pivaloyl-1-hydantoyl-acetanilide and preferable DIR compound is 2-(2-tetradecyloxyanilinocarbonyl)-4-(1-phenyl-tetrazol-5-yl-thio)-1-naphthol.
IT 191672-64-7

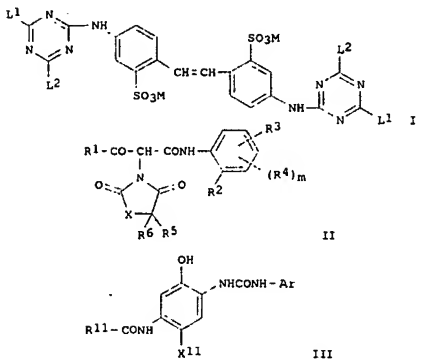
L10 ANSWER 10 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
RL: DEV (Device component use); USES (Uses)
(yellow coupler; color photog. material contg. black colloidal Ag particles to improve image sharpness and color reprodn.)
RN 191672-64-7 CAPLUS
CN 1-Hexadecanesulfonic acid, 4-chloro-3-[[2-(2,4-dioxo-3-thiazolidinyl)-4,4-dimethyl-1,3-dioxopentyl]amino]phenyl ester (9CI) (CA INDEX NAME)



L10 ANSWER 11 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1997:633008 CAPLUS
DOCUMENT NUMBER: 127:324406
TITLE: Silver halide photographic material with improved color reproduction
INVENTOR(S): Sakurazawa, Mamoru; Sakurada, Masami
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 62 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

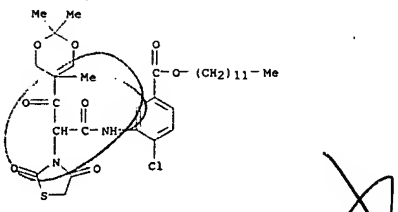
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09251196	A2	19970922	JP 1996-84457	19960314
PRIORITY APPLN. INFO.:			JP 1996-84457	19960314

GI



AB In the title material comprising ≥1 yellow coupler-containing blue-sensitive Ag halide emulsion layer(s), ≥1 magenta coupler-containing green-sensitive Ag halide emulsion layer(s), and ≥1 cyan coupler-containing red-sensitive Ag halide emulsion layer(s) on a

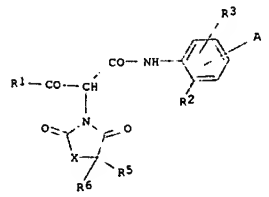
L10 ANSWER 11 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
support, the material contains a fluorescent brightener I (L1, L2 = -OR1, -NR2R3; R1-3 = H, alkyl; L1 and L2 may contain ≥4 substituents selected from -SO3M, -OSO3M, -COOM and -NR3X; L1 and L2 may contain ≥2 substituents selected from -SO3M, -OSO3M, -COOM and -NR3X and ≥2 substituents selected from -OR, -NR'R'', -CN and -NHCONH2; M = H, alkali metal, tetraalkyl ammonium, pyridinium; R, R', R'' = H, alkyl; R'-R'' may form ring) and the yellow coupler is represented by II (R1 = tertiary alkyl; R2 = halo, alkoxy, aryloxy, alkyl, alkylsulfonyloxy, cycloalkyl; R3 = alkoxycarbonyl, alkylsulfonyloxy; R4 = halo, alkyl, alkoxy, carbonamide, sulfonamide; m = 0-2; R5, R6 = H, alkyl; X = O, S, imino). The cyan coupler may be represented by III (R11 = aliph., arom., heterocyclic; Ar = arom.; X11 = H, group capable of leaving upon coupling reaction with arom. primary amine developer oxide). The material reduces residual color caused by spectral sensitization dyes.
IT 191107-78-5
RL: MOA (Modifier or additive use); USES (Uses)
(yellow coupler in Ag halide photog. material with improved color reproduction)
RN 191107-78-5 CAPLUS
CN Benzoic acid, 4-chloro-3-[[2-(2,4-dioxo-3-thiazolidinyl)-1,3-dioxo-3-(2,2,5-trimethyl-1,3-dioxan-5-yl)propyl]amino]-, dodecyl ester (9CI) (CA INDEX NAME)



L10 ANSWER 12 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1997:480691 CAPLUS
DOCUMENT NUMBER: 127:115204
TITLE: Silver halide color photographic material and package containing it
INVENTOR(S): Ishii, Yoshio; Kobayashi, Hidetoshi; Obayashi, Keiji
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 70 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

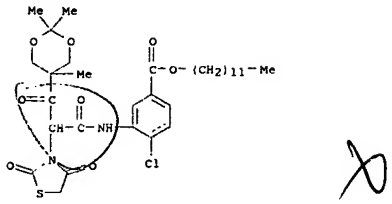
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09138488	A2	19970527	JP 1995-319833	19951115
PRIORITY APPLN. INFO.:			JP 1995-319833	19951115

OTHER SOURCE(S): MARPAT 127:115204
GI



AB The title material contains a coupler represented by I [R1 = tert-alkyl; R2 = halo, etc.; R3 = alkoxycarbonyl, etc.; A = (R4)m; R4 = halo, etc.; m = 0 or 2; R5, R6 = H, alkyl; X = O, etc.] and a compound having the hydroxylamine moiety. A package containing the title material is also claimed. The title material showed high sensitivity.
IT 191107-78-5
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(silver halide color photog. material and package containing it)
RN 191107-78-5 CAPLUS
CN Benzoic acid, 4-chloro-3-[[2-(2,4-dioxo-3-thiazolidinyl)-1,3-dioxo-3-(2,2,5-trimethyl-1,3-dioxan-5-yl)propyl]amino]-, dodecyl ester (9CI) (CA INDEX NAME)

L10 ANSWER 12 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

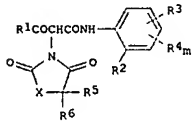


L10 ANSWER 13 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:480308 CAPLUS
DOCUMENT NUMBER: 127:101700
TITLE: Silver halide color photographic material containing pyvaloylacetanilide yellow coupler and oxidized developer scavenger
INVENTOR(S): Ishii, Yoshio; Kobayashi, Hidetoshi; Obayashi, Keiji
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 68 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09146237	A2	19970606	JP 1995-322430	19951117
PRIORITY APPLN. INFO.:			JP 1995-322430	19951117

GI



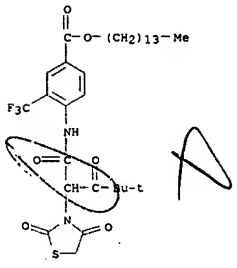
I

AB Claimed photog. color material having ≥1 light-sensitive Ag halide emulsion layer and ≥1 light-insensitive layer contains a coupler I (R1 = tert-alkyl; R2 = halo, alkoxy, aryloxy, alkyl, alkylsulfonyloxy, cycloalkyl; R3 = alkoxycarbonyloxy, alkylsulfonyloxy; R4 = halo, alkyl, heterocyclic group; n = 0, 1, 2; R5, R6 = H, alkyl; X = O, S, imino) and a compound having the structure (coup)-(time)-(s.c.) (II), where coup is a coupler moiety, time is a timing group to control the releasing rate and s.c. is scavenger of oxidized developing material. It has high speed and low fog. It also improves storage stability, and suitably applied to a multilayer color neg. material. Suitable couplers are coupler I (R1 = tert-butyl; R2 = Cl; R3 = n-tetradecyloxycarbonyl; n = 0; R5, R6 = Me; X = NCH3), coupler I (R1 = tert-butyl; R2 = Cl; R3 = n-tetradecyloxycarbonyl; n = 0; R5, R6 = Me; X = O), etc., and suitable compound II is 2-carboxyethylcarbamino-4-dodecyloxyethylcarbamoylmethoxy-naphthol.

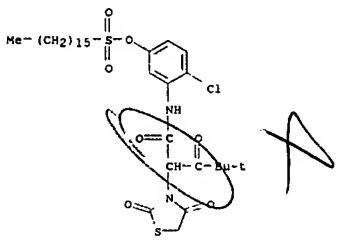
IT 190517-51-2 191672-64-7
RL: DEV (Device component use); USES (Uses)
(yellow coupler; color photog. material containing pyvaloylacetanilide yellow coupler and oxidized developer scavenger to improve storage stability)

L10 ANSWER 13 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 190517-51-2 CAPLUS
CN Benzoic acid, 4-[[2-(2,4-dioxo-3-thiazolidinyl)-4,4-dimethyl-1,3-dioxopentyl]amino]-3-(trifluoromethyl)-, tetradecyl ester (9CI) (CA INDEX NAME)



RN 191672-64-7 CAPLUS
CN 1-Hexadecanesulfonic acid, 4-chloro-3-[[2-(2,4-dioxo-3-thiazolidinyl)-4,4-dimethyl-1,3-dioxopentyl]amino]phenyl ester (9CI) (CA INDEX NAME)

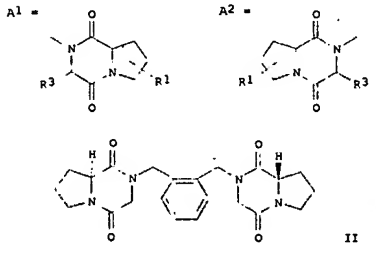


L10 ANSWER 14 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:448056 CAPLUS
DOCUMENT NUMBER: 127:65788
TITLE: Hemoregulatory pyrrolopyrazine derivatives
INVENTOR(S): Bhatnagar, Pradip Kumar; Heerding, Dirk Andries; Locastro, Stephen Michael
PATENT ASSIGNEE(S): Smithkline Beecham Corporation, USA; Bhatnagar, Pradip Kumar; Heerding, Dirk Andries; Locastro, Stephen Michael
SOURCE: PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 9718214	A1	19970522	WO 1996-US18247		19961112
W: JP, US					
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE					
EP 861255	A1	19980902	EP 1996-939701		19961112
R: BE, CH, DE, ES, FR, GB, IT, LI, NL					
JP 2000500463	T2	20000118	JP 1997-519062		19961112
US 6046197	A	20000404	US 1998-68491		19981123
PRIORITY APPLN. INFO.:			US 1995-6641P	P	19951113
			US 1996-15537P	P	19960417
			WO 1996-US18247	W	19961112

OTHER SOURCE(S): MARPAT 127:65788
GI



II

AB The invention relates to novel title compds.

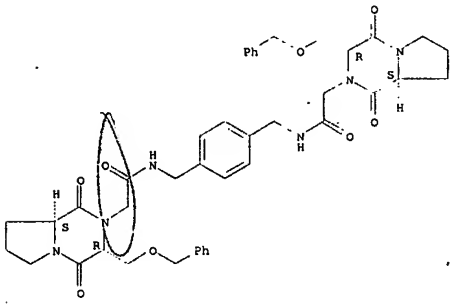
L10 ANSWER 14 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CH2)nA [I; A = pyrrolopyrazine nucleus A1 or A2; R1 = H, NH2, OH, SH, cyano, CO2H; R2 = H, carboxyalkyl or derivs., alkyl, (un)substituted CH2Ph; R3 = H, alkyl, alkyl-OH, alkyl-CO2H, (CH2)yN(R4)2, alkyl-SH, CH2Ar, etc.; R4 = H, alkyl, CH2Ph; Ar = (un)substituted Ph or indolyl; Q = (un)substituted bicyclo[3.3.0]octanyl, xylyl, benzophenonyl, 1,2,3,4-tetrahydronaphthyl; n = 0-3; m = 1-3; s = 0-1; y = 2-4; with certain provisos] and their pharmaceutically acceptable salts. I have hemoregulatory activities, can be used to stimulate hematopoiesis, and are useful for treatment of viral, fungal, and bacterial infectious diseases (no data). For example, title compd. II was prepd. in 70% yield by treating Pro-Gly diketopiperazine with NaH in DMF, followed by α,α'-dibromo-o-xylene. Two addnl. synthetic examples and 2 std. example formulations are given.

IT 191339-37-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of hemoregulatory pyrrolopyrazine derivs.)

RN 191339-37-4 CAPLUS

CN Pyrrolo[1,2-a]pyrazine-2(1H)-acetamide, N,N'-[1,4-phenylenebis(methylene)]bis[hexahydro-1,4-dioxo-3-[(phenylmethoxy)methyl]-, [3R-[2(3R*,8aS*),3α,8aα]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



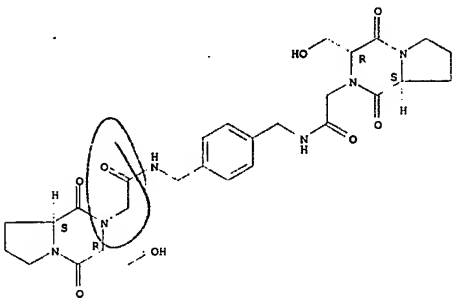
IT 191339-33-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

L10 ANSWER 14 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
(prepn. of hemoregulatory pyrrolopyrazine derivs.)

RN 191339-33-0 CAPLUS

CN Pyrrolo[1,2-a]pyrazine-2(1H)-acetamide, N,N'-[1,4-phenylenebis(methylene)]bis[hexahydro-3-(hydroxymethyl)-1,4-dioxo-, [3R-[2(3R*,8aS*),3α,8aα]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

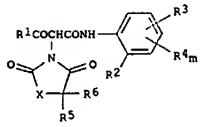


L10 ANSWER 15 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:442688 CAPLUS
DOCUMENT NUMBER: 127:57957
TITLE: Silver halide color photographic material containing a pivaloylacetamide yellow coupler to improve color reproduction and the package of the material
INVENTOR(S): Ishii, Yoshio; Tamaoki, Hiroshi; Kobayashi, Hidetoshi; Obayashi, Keiji
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 57 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09138487	A2	19970527	JP 1995-318443	19951114
PRIORITY APPLN. INFO.:			JP 1995-318443	19951114

GI



I

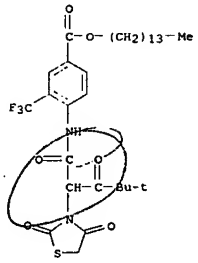
AB Claimed photog. material having ≥1 light-sensitive silver halide emulsion layer and ≥1 light-insensitive layer on a support is characterized by (1) that ≥1 of the component layer contains a pivaloylacetamide yellow coupler I (R1 = tertiary alkyl; R2 = halo, alkoxy, aryloxy, alkyl, alkylsulfonyloxy, cycloalkyl; R3 = alkoxycarbonyl, alkylsulfonyloxy; R4 = halo, alkyl, alkoxy, carbonamide, sulfonamide; m = 0-2; R5, R6 = H, alkyl; X = O, S, imino), (2) that ≥1 of the emulsion layer contains ≥50% share of the total grain-projected area of tabular grains with the aspect ratio of ≥2.0 and (3) that at least a part of the tabular grains contains a desensitizer. Another claimed is a package containing a roll film of the above-specified material wound around a spool with a pair of flanges and packed in a light-tight cartridge from which the roll film material can be pulled out for exposure and rewound back into the cartridge. The material provides an image with improved sharpness and color reproduction quality, and has good developability. Suitable yellow couplers are coupler I (R1 = pivaloyl; R2

L10 ANSWER 15 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
= Cl; R3 = n-tetradecyloxycarbonyl; m = 0, R5, R6 = Me; X = NH) and I (R1 = pivaloyl; R2 = Cl; R3 = n-lauryloxycarbonyl; m = 0; R5, R6 = Me; X = O).
Suitable desensitizers are RhCl3, K2[RuCl5(NO)], etc.

IT 190517-51-2 191107-78-5
RL: TEM (Technical or engineered material use); USES (Uses)
(silver halide color photog. material containing a pivaloylacetamide yellow coupler)

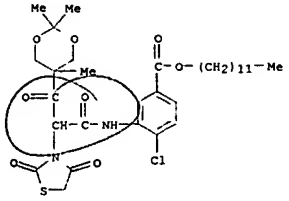
RN 190517-51-2 CAPLUS

CN Benzoic acid, 4-[[2-(2,4-dioxo-3-thiazolidinyl)-4,4-dimethyl-1,3-dioxopentyl]amino]-3-(trifluoromethyl)-, tetradecyl ester (9CI) (CA INDEX NAME)



RN 191107-78-5 CAPLUS

CN Benzoic acid, 4-chloro-3-[[2-(2,4-dioxo-3-thiazolidinyl)-1,3-dioxo-3-(2,2,5-trimethyl-1,3-dioxan-5-yl)propyl]amino]-, dodecyl ester (9CI) (CA INDEX NAME)



L10 ANSWER 15 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L10 ANSWER 16 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1997:410265 CAPLUS
DOCUMENT NUMBER: 127:42139
TITLE: Silver halide color photographic film with improved sharpness and photographic roll film patrone containing same
INVENTOR(S): Ishii, Yoshio; Kobayashi, Hidetoshi; Obayashi, Keiji
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 63 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

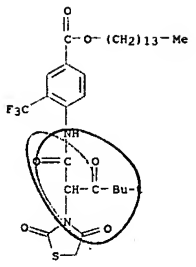
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09101602	A2	19970415	JP 1995-278295	19951003
PRIORITY APPLN. INFO.:			JP 1995-278295	19951003

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

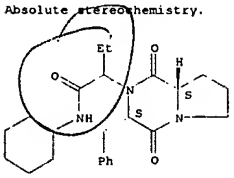
AB The title full color film contains a photog. yellow coupler(s) I (R1 = tertiary-alkyl; R2 = halo, alkoxy, aryloxy, alkyl, alkylsulfonyloxy, cycloalkyl; R3 = alkoxycarbonyl, alkylsulfonyloxy; R4 = halo, alkyl, alkoxy, carbonamide, sulfonamide; m = 0-2; R5, R6 = H, alkyl; X = O, S, imino) and a water-soluble, organic solvent-insol. compound(s) selected from II (Z1, Z2 = non-metal atoms forming heterocyclic ring; L = methine; n = 0-2), III (R1, R4, R5, R8 = H, OH, alkoxy, aryloxy, carbamoyl, amino; R2, R3, R6, R7 = H, sulfonic acid, carboxyl, alkyl, aryl), IV (R10, R11 = alkyl; L1-3 = methine; m = 0-3; Z3, Z4 = non metal atoms forming 5- or 6-membered heterocyclic ring; k, n = 0, 1; X- = anion; p = 1, 2) and V (R10, R11 = alkyl; L1-3 = methine; m = 0-3; Z3, Z4 = non metal atoms forming 5- or 6-membered heterocyclic ring; k, n = 0, 1; X- = anion; p = 1, 2).
IT 190517-51-2
RL: DEV (Device component use); USES (Uses)
(photog. yellow coupler for improving sharpness of color photog. film)
RN 190517-51-2 CAPLUS
CN Benzoic acid, 4-[[2-(2,4-dioxo-3-thiazolidinyl)-4,4-dimethyl-1,3-dioxopentyl]amino]-3-(trifluoromethyl)-, tetradecyl ester (9CI) (CA INDEX NAME)

L10 ANSWER 16 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L10 ANSWER 17 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1997:336229 CAPLUS
DOCUMENT NUMBER: 127:50611
TITLE: A simple procedure for the solid phase synthesis of diketopiperazine and diketomorpholine derivatives
AUTHOR(S): Szardenings, Anna Katrin; Burkoth, Timothy S.; Lu, Henry H.; Tien, David W.; Campbell, David A.
CORPORATE SOURCE: Affymax Res. Inst., Santa Clara, CA, 95051, USA
SOURCE: Tetrahedron (1997), 53(19), 6573-6593
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A novel route for the synthesis of diketopiperazines and diketomorpholines on a solid support is described. Two different approaches are reported for diketopiperazines. The cyclization step involves cyclization with simultaneous cleavage from the resin.
IT 191028-03-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(solid phase preparation of diketopiperazine and diketomorpholine derivs.)
RN 191028-03-2 CAPLUS
CN Pyrrolo[1,2-a]pyrazine-2(1H)-acetamide, N-cyclohexyl-α-ethylhexahydro-1,4-dioxo-3-(phenylmethyl)-, [3S-(3α,8aβ)]-[partial]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

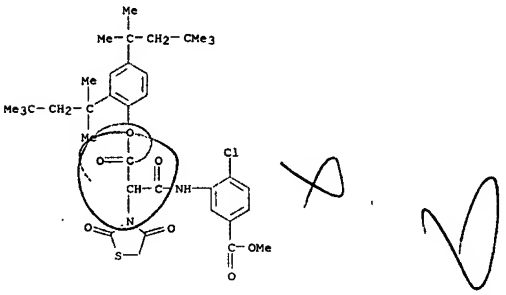


REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 18 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:750654 CAPLUS
DOCUMENT NUMBER: 123:156304
TITLE: Silver halide color photographic material
INVENTOR(S): Kobayashi, Hidetoshi; Saito, Naoki
PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 72 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07134379	A2	19950523	JP 1993-303231	19931110
PRIORITY APPLN. INFO.:			JP 1993-303231	19931110

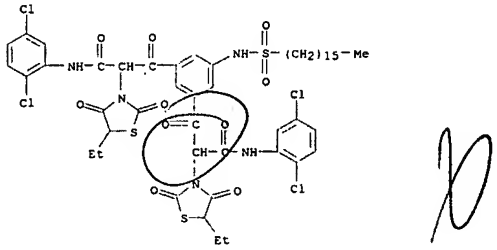
AB The title Ag halide color photog. material utilizes Ag halide emulsions containing tabular Ag halide grains of aspect ratio ≥2 and oxycarbonylacetamido-type yellow couplers. The images show high yellow color discrimination, and fogging is inhibited even on long-term storage.
IT 166748-80-7P
RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(yellow photog. coupler)
RN 166748-80-7 CAPLUS
CN 3-Thiazolidineacetic acid, α-[[[2-chloro-5-(methoxycarbonyl)phenyl]amino]carbonyl]-2,4-dioxo-, 2,4-bis(1,1,3,3-tetramethylbutyl)phenyl ester (9CI) (CA INDEX NAME)



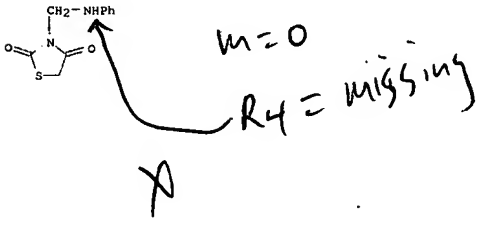
L10 ANSWER 19 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1990:431821 CAPLUS
DOCUMENT NUMBER: 113:31821
TITLE: Silver halide color photographic material containing yellow coupler
INVENTOR(S): Ogawa, Akira; Ishii, Yoshio
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 41 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01295256	A2	19891128	JP 1988-61332	19880315
PRIORITY APPLN. INFO.:			JP 1988-34695	A1 19880217

GI For diagram(s), see printed CA Issue.
AB The title color photog. material contains a yellow dye-forming coupler (I)
[R1 = ballast group; R2 = substituent; Z1 = 5- or 6-membered heterocyclic ring; m = 1-6]. Light and heat fastness can be improved.
IT 127799-87-5
RL: USES (Uses)
(yellow dye-forming coupler)
RN 127799-87-5 CAPLUS
CN 1,3-Benzenedipropanamide, N,N'-bis(2,5-dichlorophenyl)-α,α'-bis(5-ethyl-2,4-dioxo-3-thiazolidinyl)-5-[(hexadecylsulfonyl)amino]-β,β'-dioxo- (9CI) (CA INDEX NAME)

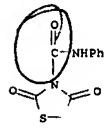


L10 ANSWER 20 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1988:473374 CAPLUS
DOCUMENT NUMBER: 109:73374
TITLE: Derivatives of thiazolidinedione having pharmacological properties: thiazolidine-2,4-dione and it derivatives
AUTHOR(S): Nguyen Khang; Le Van Minh; Nguyen Ngoc Vinh; Binh, T. M.; Kohi, P. G.; Bui Xuan Dong; Lien, N. K.; Lien, B. K.
CORPORATE SOURCE: Fac. Pharm., Hanoi, Vietnam
SOURCE: Revue Pharmaceutique (1986) 110-18
CODEN: REPHEB; ISSN: 1013-1833
DOCUMENT TYPE: Journal
LANGUAGE: French
AB Six 2,4-thiazolidinediones were prepared and tested for bacteriostatic, antimycotic, and antimitotic activity. Thus, cyclocondensation of H2NC(S)NH2 and ClCH2CO2H gave 2,4-thiazolidinedione, which was condensed with benzaldehydes or furfural to give 5-substituted derivs. Also, Mannich reaction of 2,4-thiazolidinedione with HCHO and PhNH2 gave 3-(anilinomethyl)-2,4-thiazolidinedione. 5-Furfurylidene-2,4-thiazolidinedione showed significant antimitotic activity.
IT 39683-37-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and bacteriostatic, antimycotic, and antimitotic activity of)
RN 39683-37-9 CAPLUS
CN 2,4-Thiazolidinedione, 3-[(phenylamino)methyl]- (9CI) (CA INDEX NAME)



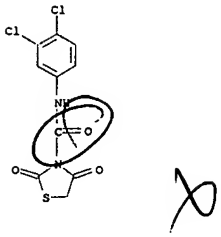
L10 ANSWER 21 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1984:611025 CAPLUS
DOCUMENT NUMBER: 101:211025
TITLE: Chemistry of 2,4-dioxotetrahydro-1,3-thiazole. IX. Reactions of 2,4-dioxotetrahydro-1,3-thiazole with some aryl isocyanates and biological activity of the products
AUTHOR(S): Popov-Pergal, Katarina M.; Pergal, Miroslav A.
CORPORATE SOURCE: Fac. Sci., Univ. Novi Sad, Novi Sad, YU-21000, Yugoslavia
SOURCE: Glasnik Hemijskog Drustva Beograd (1984), 49(5), 267-9
CODEN: GHDBAX; ISSN: 0017-0941
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 101:211025
GI

AB Title thiazole I (R = H) was treated with PhNCO and 2,4-Cl2C6H3NCO to give I (R = PhNHCO, 2,4-Cl2C6H3NHCO) in 92 and 89% yield, resp. I were tested as fungicides against Aspergillus niger and Botrytis cinerea.
IT 93103-64-1P 93126-07-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 93103-64-1 CAPLUS
CN 3-Thiazolidinecarboxamide, 2,4-dioxo-N-phenyl- (9CI) (CA INDEX NAME)



RN 93126-07-9 CAPLUS
CN 3-Thiazolidinecarboxamide, N-(3,4-dichlorophenyl)-2,4-dioxo- (9CI) (CA INDEX NAME)

L10 ANSWER 21 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

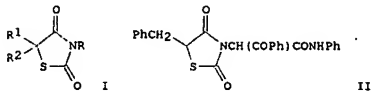


L10 ANSWER 22 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1984:601349 CAPLUS
DOCUMENT NUMBER: 101:201349
TITLE: Forming yellow dye images for color photographic materials
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59086049	A2	19840518	JP 1983-182187	19830929
JP 63025655	B4	19880526		
PRIORITY APPLN. INFO.:			JP 1983-182187	19830929

GI

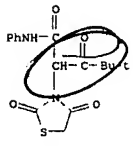


AB Yellow dye images are obtained by color-developing and bleach-fixing a color photog. photosensitive material and by using a 2-equivalent yellow coupler of the general formula I [R= an active methylene residue-containing substituent; R1, R2 = H, alkyl, aryl, aralkyl, benzylidene, cycloalkyl] either in the photog. material or in the developer. The yellow coupler has a high reactivity and releases a yellow dye having good light, moisture, and heat stability and excellent spectral properties. Thus, II dissolved in a mixture of di-Bu phthalate and EtOAc was dispersed with Alkanol B in gelatin to give a coupler dispersion. The dispersion was then added to a gelatin-Ag(Br,I) emulsion and coated on a film support to form a photog. material. The material was exposed, color-developed, and bleach-fixed to give a yellow dye image which showed a stable color-d. under forced conditions with respect to light and moisture.

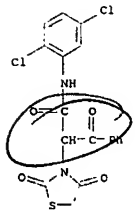
IT 50771-44-3 50771-45-4 50771-46-5
50771-47-6 50771-51-2 50771-56-7
RL: TEM (Technical or engineered material use); USES (Uses)
(photog. yellow coupler)

RN 50771-44-3 CAPLUS
CN 3-Thiazolidineacetamide, α-(2,2-dimethyl-1-oxopropyl)-2,4-dioxo-N-phenyl- (9CI) (CA INDEX NAME)

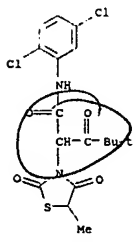
L10 ANSWER 22 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 50771-45-4 CAPLUS
CN 3-Thiazolidineacetamide, α-benzoyl-N-(2,5-dichlorophenyl)-2,4-dioxo- (9CI) (CA INDEX NAME)



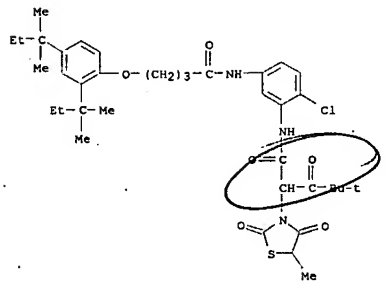
RN 50771-46-5 CAPLUS
CN 3-Thiazolidineacetamide, N-(2,5-dichlorophenyl)-α-(2,2-dimethyl-1-oxopropyl)-5-methyl-2,4-dioxo- (9CI) (CA INDEX NAME)



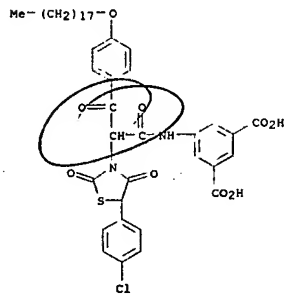
RN 50771-47-6 CAPLUS

L10 ANSWER 22 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CN 3-Thiazolidineacetamide, N-{5-[[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]-α-(2,2-dimethyl-1-oxopropyl)-5-methyl-2,4-dioxo- (9CI) (CA INDEX NAME)

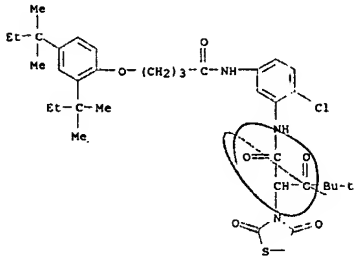


RN 50771-51-2 CAPLUS
CN 1,3-Benzenedicarboxylic acid, 5-[[2-[5-(4-chlorophenyl)-2,4-dioxo-3-thiazolidinyl]-3-[4-(octadecyloxy)phenyl]-1,3-dioxopropyl]amino]-, dipotassium salt (9CI) (CA INDEX NAME)



RN 50771-56-7 CAPLUS
CN 3-Thiazolidineacetamide, N-{5-[[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]-α-(2,2-dimethyl-1-oxopropyl)-2,4-

L10 ANSWER 22 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
dioxo- (9CI) (CA INDEX NAME)



L10 ANSWER 23 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1984:501151 CAPLUS
DOCUMENT NUMBER: 101:101151
TITLE: Color photographic image formation
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58021738	A2	19830208	JP 1981-121041	19810731
JP 62061252	B4	19871221		
PRIORITY APPLN. INFO.:			JP 1981-121041	19810731

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

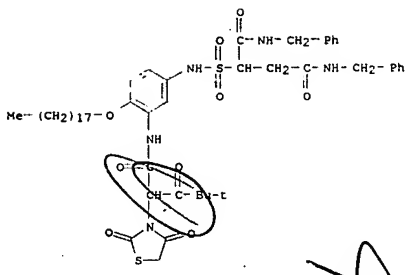
AB Color image formation is effected by processing an exposed Ag halide photog. material in the presence of a yellow dye-forming coupler I- IV [R = H, group releasable during coupling; R1 = halo, C1-30 alkoxy; R2 = H, group substitutable on benzene ring; R3 = SR, SO2R, O2CR, OCOR, NR2, NRCOR, phthalylimido, CN, NRSO2R; Z = C1-30 alkylene; R4, R5 = C1-5 alkyl, C1-30 alkoxy, halo, acylamino, OH; n, m = 0, 1; R6 = haloalkyl, RO2CCH2CH(CO2R), RRNOCCR(CONRR), RO2CCRR, CRRCN]. These couplers allow the preparation of Ag halide photog. materials with greatly reduced Ag consumption.

IT 90704-49-7
RL: TEM (Technical or engineered material use); USES (Uses)
(photog. yellow coupler)

RN 90704-49-7 CAPLUS

CN Butanediamide, 2-[[[3-[[2-(2,4-dioxo-3-thiazolidinyl)-4,4-dimethyl-1,3-dioxopentyl]amino]-4-(octadecyloxy)phenyl]amino]sulfonyl]-N,N'-bis(phenylmethyl)- (9CI) (CA INDEX NAME)

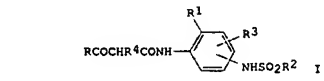
L10 ANSWER 23 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L10 ANSWER 24 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1983:446006 CAPLUS
DOCUMENT NUMBER: 99:46006
TITLE: Forming a color photographic image
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58042046	A2	19830311	JP 1981-140035	19810904
JP 02043167	B4	19900927		
PRIORITY APPLN. INFO.:			JP 1981-140035	19810904

GI



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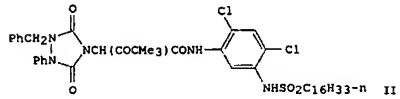
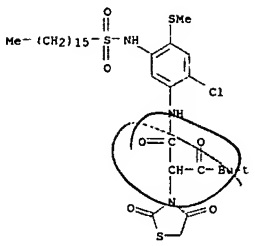


II

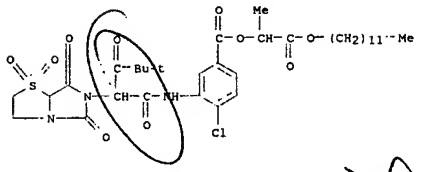
AB Color photog. images are formed by developing imagewise exposed Ag halide color photog. materials in the presence of an aromatic primary amine type color developing agent and a 2-equivalent yellow coupler of the formula I [R = alkyl, aryl; R1 = halo, alkoxy; R2 = alkyl, phenylalkyl; R3 = halo, alkyl, alkoxy, alkylthio, alkylsulfonyl; R4 = a group which can be eliminated upon coupling reaction]. The yellow coupler exhibits good solubility, spectroscopic property, image stability, and high dye-forming rate even in the absence of PhCH2OH. Thus, the coupler II dissolved in a di-Bu phthalate-Et acetate mixed solution was emulsified with an Alkanol B solution and a gelatin solution to form a coupler dispersion. The dispersion was added to a Ag(Cl,Br) [Br 20 mol %] emulsion, coated on a polyethylene-laminated paper support, wedge-exposed, and developed with a color developer containing 4-amino-3-methyl-N-ethyl-N-(β-methanesulfonamidoethyl)aniline sulfate, sodium hexametaphosphate, Na2SO3, NaBr, KBr, and borax to give Dmax value which was same as that obtained with a developer containing PhCH2OH.

IT 86263-85-6
RL: TEM (Technical or engineered material use); USES (Uses)

L10 ANSWER 24 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
(photog. yellow coupler)
RN 86263-85-6 CAPLUS
CN 3-Thiazolidineacetamide, N-[2-chloro-5-[(hexadecylsulfonyl)amino]-4-(methylthio)phenyl]-α-(2,2-dimethyl-1-oxopropyl)-2,4-dioxo- (9CI) (CA INDEX NAME)



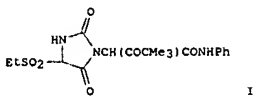
L10 ANSWER 25 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L10 ANSWER 25 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1982:414753 CAPLUS
DOCUMENT NUMBER: 97:14753
TITLE: Photographic yellow image formation
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 56153343	A2	19811127	JP 1980-57591	19800429
PRIORITY APPLN. INFO.:			JP 1980-57591 A	19800429

GI



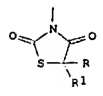
I

AB Photog. yellow images are formed by developing Ag halide photog. materials by using an aromatic amine type developing agent and a yellow coupler whose active H on the methylene group is substituted with hydantoin-3-yl group having SO or SO2 in the 5-position. Thus, the yellow coupler I was used to give a photog. film, which gave high-Dmax yellow images with good light-fastness and moisture resistance.
IT 82063-75-0
RL: TEM (Technical or engineered material use); USES (Uses)
(photog. yellow coupler)
RN 82063-75-0 CAPLUS
CN Benzoic acid, 4-chloro-3-[[4,4-dimethyl-1,3-dioxo-2-(tetrahydro-1,1-dioxido-5,7-dioxoimidazo[5,1-b]thiazol-6(5H)-yl)pentyl]amino]-, 2-(dodecyloxy)-1-methyl-2-oxoethyl ester (9CI) (CA INDEX NAME)

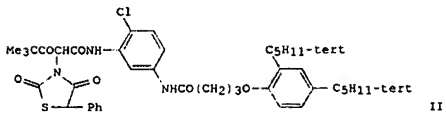
L10 ANSWER 26 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1981:415910 CAPLUS
DOCUMENT NUMBER: 95:15910
TITLE: Photographic yellow image formation
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 55163538	A2	19801219	JP 1980-26855	19800303
JP 57037859	B4	19820812		
PRIORITY APPLN. INFO.:			JP 1980-26855 A	19800303

GI



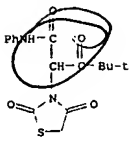
I



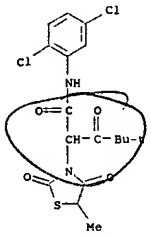
II

AB Photog. yellow images are formed by using photog. photosensitive material or developer which contains an acetamide derivative type coupler containing I (R,R1 = H, alkyl, aryl, aralkyl, benzylidene, cycloalkyl) and alkylcarbonyl groups on the α position of the acetamide. Thus, a Ag halide photog. emulsion containing II was prepared by using a conventional method, and coated on a film support. The photog. film was imagewise exposed and developed to give yellow images (λmax = 447 nm; Dmax = 1.93) having excellent light fastness and moisture resistance.
IT 50771-44-3 50771-46-5 50771-47-6
50771-56-7 50929-74-3 77934-35-1
RL: TEM (Technical or engineered material use); USES (Uses)
(photog. yellow coupler)
RN 50771-44-3 CAPLUS
CN 3-Thiazolidineacetamide, α-(2,2-dimethyl-1-oxopropyl)-2,4-dioxo-N-phenyl- (9CI) (CA INDEX NAME)

L10 ANSWER 26 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

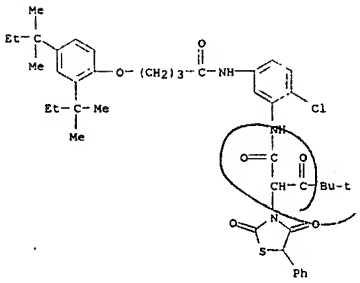


RN 50771-46-5 CAPLUS
CN 3-Thiazolidineacetamide, N-(2,5-dichlorophenyl)-α-(2,2-dimethyl-1-oxopropyl)-5-methyl-2,4-dioxo- (9CI) (CA INDEX NAME)



RN 50771-47-6 CAPLUS
CN 3-Thiazolidineacetamide, N-[5-[[4-(2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]-α-(2,2-dimethyl-1-oxopropyl)-5-methyl-2,4-dioxo- (9CI) (CA INDEX NAME)

L10 ANSWER 26 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 77934-35-1 CAPLUS
CN Benzoic acid, 4-[3-[1-[[[5-[[2-(carboxymethyl)-1-oxoeicosyl]amino]-2-chlorophenyl]amino]carbonyl]-3,3-dimethyl-2-oxobutyl]-2,4-dioxo-5-thiazolidinyl]- (9CI) (CA INDEX NAME)

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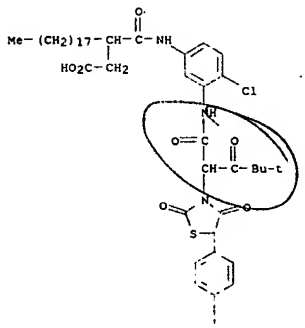
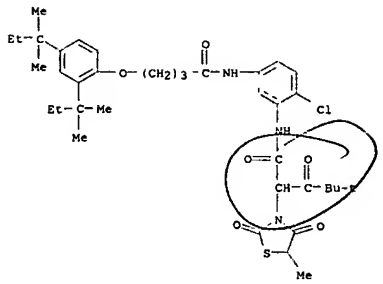
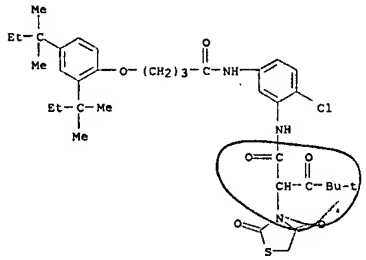


L10 ANSWER 26 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 50771-56-7 CAPLUS
CN 3-Thiazolidineacetamide, N-[5-[[4-(2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]-α-(2,2-dimethyl-1-oxopropyl)-2,4-dioxo- (9CI) (CA INDEX NAME)



RN 50929-74-3 CAPLUS
CN 3-Thiazolidineacetamide, N-[5-[[4-(2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]-α-(2,2-dimethyl-1-oxopropyl)-2,4-dioxo-5-phenyl- (9CI) (CA INDEX NAME)

L10 ANSWER 26 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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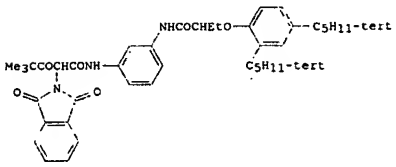
L10 ANSWER 27 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1980:416904 CAPLUS
DOCUMENT NUMBER: 93:16904
TITLE: Silver halide color photographic materials
INVENTOR(S): Arai, Atsuaki; Ooishi, Kiyoshi; Okumura, Akio; Nakajo,
Kyoshi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 34 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 55000598	A2	19800105	JP 1979-70853	19790606
JP 58010739	B4	19830226		
PRIORITY APPLN. INFO.:			JP 1979-70853 A	19790606

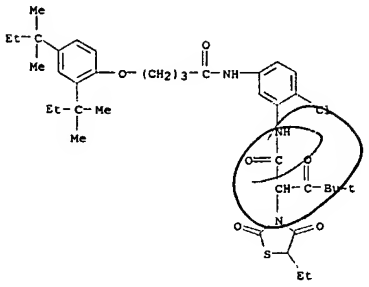
GI



I

AB Ag halide color photog. materials contain acetamide derivs. having acylamino and aliphatic acyl groups on the α C atom as the yellow couplers. The couplers exhibit excellent coupling reactivity. Thus, a yellow coupler I 27 g was added to a Ag(Br,I) emulsion containing 54 g Ag halide, and the emulsion was coated on a film support. The resultant photog. film was sensitometrically exposed and developed to give λmax, fog, relative sensitivity, γ, and Dmax of 449 nm, 0.20, 100, 2.23, and 3.06, resp., vs. 449 nm, 0.11, 95, 0.65, and 1.87 for a control with α-pivalyl-2-chloro-5-[α-(2,4-di-tert-amylphenoxy)butyramido]acetanilide instead of I.
IT 73899-24-8
RL: TEM (Technical or engineered material use); USES (Uses)
(photog. yellow coupler)
RN 73899-24-8 CAPLUS
CN 3-Thiazolidineacetamide, N-[5-[[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]-α-(2,2-dimethyl-1-oxopropyl)-5-ethyl-

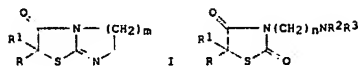
L10 ANSWER 27 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
2,4-dioxo- (9CI) (CA INDEX NAME)



L10 ANSWER 28 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1980:163956 CAPLUS
DOCUMENT NUMBER: 92:163956
TITLE: 2,4-Thiazolidinedione derivatives
INVENTOR(S): Bigg, Dennis Claude
PATENT ASSIGNEE(S): Synthelabo S. A., Fr.
SOURCE: Eur. Pat. Appl., 22 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 2978	A2	19790711	EP 1978-400236	19781213
EP 2978	A3	19790725		
EP 2978	B1	19821006		
R: BE, CH, DE, FR, GB, IT, LU, NL, SE				
FR 2413381	A1	19790727	FR 1977-39559	19771229
FR 2413381	B1	19800606		
FR 2442232	A2	19800620	FR 1978-33244	19781124
FR 2442232	B2	19811113		
IL 56304	A1	19820228	IL 1978-56304	19781226
DK 7805825	A	19790630	DK 1978-5825	19781227
DK 149429	B	19860609		
DK 149429	C	19870309		
FI 7803995	A	19790630	FI 1978-3995	19781227
FI 68819	B	19850731		
FI 68819	C	19851111		
NO 7804382	A	19790702	NO 1978-4382	19781227
NO 148454	B	19830704		
NO 148454	C	19831012		
ZA 7807304	A	19791227	ZA 1978-7304	19781227
CA 1107740	A1	19810825	CA 1978-318655	19781227
ES 476408	A1	19790401	ES 1978-476408	19781228
AU 7842961	A1	19790705	AU 1978-42961	19781228
AU 517221	B2	19810716		
JP 54098758	A2	19790803	JP 1978-164429	19781228
JP 60011908	B4	19850328		
AT 7809366	A	19820715	AT 1978-9366	19781229
AT 370098	B	19830225		
US 4349683	A	19820914	US 1980-181475	19800826
PRIORITY APPLN. INFO.:			FR 1977-39559	19771229
			FR 1978-33244	19781124
			US 1978-914 A1	19781229

OTHER SOURCE(S): MARPAT 92:163956
GI



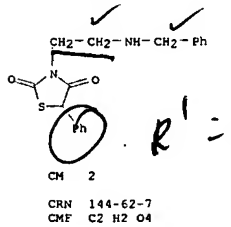
I II

L10 ANSWER 28 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

AB Imidazothiazoles I [m = 1, 2; R = Ph, halo-, alkyl-, alkoxy-, nitro-, (trifluoromethyl)-, or (trifluoromethylthio)phenyl, naphthyl; R1 = H, alkyl, Ph, PhCH2, allyl] were converted to title compds. II (n = 2, 3; R2 = H, alkyl, Bz, Ac, PhCH2, methyl-, methoxy-, or halobenzyl; R3 = H, alkyl), useful as anticonvulsants and antidepressants (no data). Thus, a mixture of 2-imidazolidinethione, PhCHBr, and HOAc was heated to give I (R = Ph, R1 = H, m = 1).HBr, and the product and HBr was refluxed to yield II (R = Ph, R1 = R2 = R3 = H, n = 2).HBr.
IT 72191-70-9P 72191-86-7P 72191-89-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 72191-70-9 CAPLUS
CN 2,4-Thiazolidinedione, 5-phenyl-3-[2-[(phenylmethyl)amino]ethyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

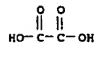
CM 1

CRN 72191-69-6
CMF C18 H18 N2 O2 S



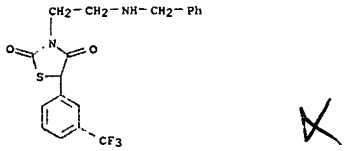
CM 2

CRN 144-62-7
CMF C2 H2 O4



RN 72191-86-7 CAPLUS
CN 2,4-Thiazolidinedione, 3-[2-[(phenylmethyl)amino]ethyl]-5-[3-(trifluoromethyl)phenyl]-, monohydrobromide (9CI) (CA INDEX NAME)

L10 ANSWER 28 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● HBr

RN 72191-89-0 CAPLUS
CN 2,4-Thiazolidinedione, 5-[(3-methoxyphenyl)methyl]-3-[2-[[(2-methylphenyl)methyl]amino]ethyl]-, monohydrobromide (9CI) (CA INDEX NAME)

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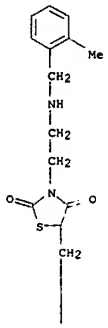


L10 ANSWER 28 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 2-A

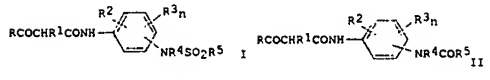
● HBr

L10 ANSWER 29 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1980:67695 CAPLUS
DOCUMENT NUMBER: 92:67695
TITLE: Photographic yellow coupler
INVENTOR(S): Ishikawa, Wataru; Endo, Takaya; Sato, Ryosuke
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
SOURCE: Ger. Offen., 46 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

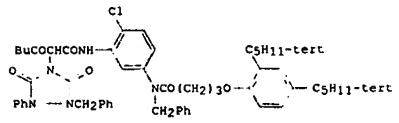
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2908775	A1	19790913	DE 1979-2908775	19790306
JP 54121126	A2	19790920	JP 1978-27865	19780311
JP 61037614	B4	19860825		
AU 7944776	A1	19790913	AU 1979-44776	19790302
AU 511657	B2	19800828		
SE 7902115	A	19790912	SE 1979-2115	19790308
FR 2419532	A1	19791005	FR 1979-5950	19790308
FR 2419532	B1	19820730		
GB 2018445	A	19791017	GB 1979-8376	19790309
GB 2018445	B2	19821208		
CH 638905	A	19831014	CH 1979-2302	19790309
PRIORITY APPLN. INFO.:			JP 1978-27865 A	19780311

GI

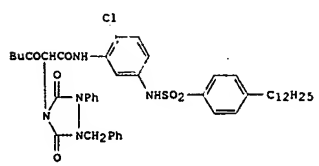


I

II



III



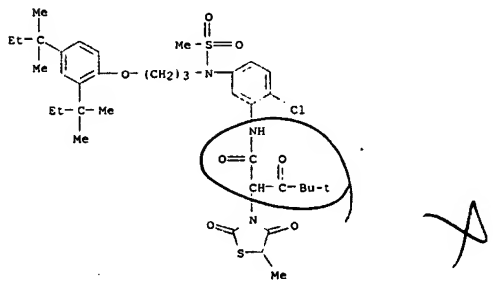
IV

L10 ANSWER 29 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

AB Color photog. images with reduced staining and improved light and storage stability are prepared by using a yellow coupler I or II (R = alkyl or aryl; R1 = a releaseable group; R2 = halogen, alkoxy, or arloxy; R3 = any benzene substituent; R4 = halogen, acyl, alkyl, aryl, or heterocycle; R5 = alkyl, aryl, or heterocycle; and n = 0 or 1) in ≥1 of the emulsion layers. Thus, III was prepared by condensing Et α-pivaloylacetate and 2-chloro-5-nitroaniline, chlorinating with SO2Cl2, treating with the K salt of 1-benzyl-2-phenylurazole, reducing the nitroacetanilide group, treating with benzyl bromide in acetone and K2CO3, and then treating with γ-(2,4-di-tert-amylphenoxy)butyryl chloride in MeCN and then added to a Ag(I,Br)emulsion, the emulsion coated on a film support, dried, the assembly exposed through a step wedge, developed in a bath of 4-amino-3-methyl-N-ethyl-N-(β-hydroxyethyl)aniline sulfate 4.75, Na2SO3 4.25, hydroxylamine hemisulfate 2.0, K2CO3 37.5, NaBr 1.3, Na3NTA.H2O 2.5, KOH 1.0, and H2O to 1 L, bleached, fixed, and stabilized to give a stain-free image which when exposed for 100 h to a Xe lamp still had 92% of its original optical d. vs. 45% for an assembly containing IV instead of III.

IT 72628-51-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 72628-51-4 CAPLUS
CN 3-Thiazolidineacetamide, N-[5-[[3-[2,4-bis(1,1-dimethylpropyl)phenoxy]propyl](methylsulfonyl)amino]-2-chlorophenyl]-α-(2,2-dimethyl-1-oxopropyl)-5-methyl-2,4-dioxo- (9CI) (CA INDEX NAME)

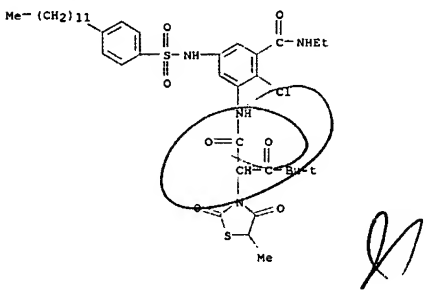


L10 ANSWER 30 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1980:67692 CAPLUS
DOCUMENT NUMBER: 92:67692
TITLE: Photographic yellow dye image formation
INVENTOR(S): Ishikawa, Tsune; Fujiwara, Mitsuto; Kojima, Tamotsu; Endo, Takaya; Kato, Katsunori
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 54099433	A2	19790806	JP 1978-5666	19780120
JP 57004897	B4	19820128		
AU 7943506	A1	19790726	AU 1979-43506	19790119
AU 513926	B2	19810115		
DE 2902074	A1	19790726	DE 1979-2902074	19790119
GB 2015994	A	19790919	GB 1979-1999	19790119
GB 2015994	B2	19820804		
US 4289847	A	19810915	US 1980-170770	19800721
PRIORITY APPLN. INFO.:			JP 1978-5666 A	19780120
			US 1979-4768 A1	19790119

GI For diagram(s), see printed CA Issue.
AB Photog. yellow images are obtained by processing an imagewise-exposed Ag halide photog. material in the presence of aromatic primary amine-type developing agents and yellow couplers of the general formula I [R = CN, CO2H, alkylcarbonyl, arylcarbonyl; R1, R2, R3, R4 = H, halo, alkyl, alkoxy, aryloxy, alkylacyloxy, arylacyloxy, acylamino, N-substituted carbamoyl, alkylsulfonamido, arylsulfonamido, N-substituted sulfamoyl; R5 = cycloalkyl, alkenyl, heterocyclic moiety, naphthyl, or II(R6, R7, R8, R9, R10 = H, halo, CO2H, alkoxycarbonyl, aryloxycarbonyl, sulfo, substituted carbamoyl, substituted sulfamoyl, alkyl, alkoxy, alkylsulfonamido, arylsulfonamido, aryl, aryloxy; total number of C atoms in the substituents R6 through R10 is 5-20); Z = group of elements required to complete a 6- or 5-membered ring]. The method give yellow images with excellent light fastness. Thus, a high-sensitivity Ag(Br,I) emulsion containing the yellow coupler III was prepared by using a conventional method and the emulsion was coated on a film support. The resulting photog. film was imagewise-exposed and developed with a developer containing N-ethyl-N-β-methanesulfonamidoethyl-3-methyl-4-aminoaniline-HCl salt to give yellow images with λmax and Dmax of 452 nm and 2.05, resp. The yellow images showed excellent light fastness and moisture resistance.
IT 72387-62-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 72387-62-3 CAPLUS

L10 ANSWER 30 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN 3-Thiazolidineacetamide, N-[2-chloro-5-[[(4-dodecylphenyl)sulfonyl]amino]-3-[(ethylamino)carbonyl]phenyl]-α-(2,2-dimethyl-1-oxopropyl)-5-methyl-2,4-dioxo- (9CI) (CA INDEX NAME)

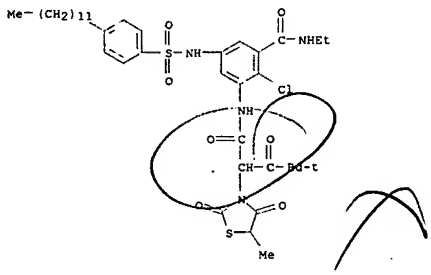


L10 ANSWER 31 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1980:31964 CAPLUS
DOCUMENT NUMBER: 92:31964
TITLE: Color image production
INVENTOR(S): Ishikawa, Wataru; Fujiwhara, Mitsuto; Kojima, Tamotsu; Endo, Takaya; Kato, Katsunori
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
SOURCE: Ger. Offen., 62 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2902074	A1	19790726	DE 1979-2902074	19790119
JP 54099433	A2	19790806	JP 1978-5666	19780120
JP 57004897	B4	19820128		
PRIORITY APPLN. INFO.:			JP 1978-5666 A	19780120

GI For diagram(s), see printed CA Issue.
AB Multilayer photog. materials giving yellow images having low fog, good lightfastness and moisture resistance and whose quality is independent of pH at 10.0-11.5 contain a yellow coupler having the formula I (R = CN, alkylcarbonyl, or arylcarbonyl; R1-R4 = H, halogen, alkyl, alkoxy, aryloxy, alkylacyloxy, arylacyloxy, acylamino, N-substd. carbamoyl, alkylsulfonamido, arylsulfonamido, N-substd. sulfamoyl, or imido; R5 = cycloalkyl, alkenyl, naphthyl, heterocycle, or Ph with 5 substituents which are the same or different and are H, halogen, carboxyl, ester, sulfo, sulfoester, carbamoyl, sulfamoyl, alkyl, alkoxy, alkylsulfonamido, arylsulfonamido, aryl, or aryloxy and where the total number of C atoms is 20; and Z is the number of nonmetallic atoms necessary to complete a 5- or 6-membered ring). Thus, the yellow coupler II, which was prepared by treating α-pivalyl-5-amino-2,4-dichloroacetanilide with an eqimolar amount of p-hexadecylbenzenesulfonyl chloride, treating the product in CHCl3 with an equimolar amount of sulfuryl chloride, and then treating that product in MeCN with the K salt of succinimide, was dissolved in a mixture (20 g) of EtOAc and di-Bu phthalate (3:1 volume) at 60 ° and then dispersed in a solution containing 10 % aqueous com. alkylnaphthalenesulfonate 10 mL and 6 % aqueous gelatin 200 mL. This dispersion was then added to a Ag(I,Br) emulsion 1 kg, the emulsion coated on a support, dried, exposed, developed for 10 min at 20 ° with a solution of N-ethyl-N-β-methanesulfonamidoethyl-3-methyl-4-aminoaniline hydrochloride 5.0, Na2SO3 2.0, benzyl alc. 3.8, Na2CO3.H2O 50.0, KBr 1.0, NaOH 0.55, and H2O to 1 L, stopped, and bleached to give a yellow image with λmax 452μ, Dmax 2.05, light stability after 100 h exposure to a Xe-arc lamp at 50 ° of 67 %, and moisture stability after 7 days at 50 ° and a relative humidity 80 % of 98 % vs. 450μ, 2.26, 57 %, and 95 %, resp., for a film containing the coupler III.
IT 72387-62-3P

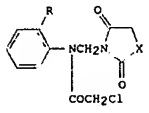
L10 ANSWER 31 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 72387-62-3 CAPLUS
CN 3-Thiazolidineacetamide, N-[2-chloro-5-[[(4-dodecylphenyl)sulfonyl]amino]-3-[(ethylamino)carbonyl]phenyl]-α-(2,2-dimethyl-1-oxopropyl)-5-methyl-2,4-dioxo- (9CI) (CA INDEX NAME)



L10 ANSWER 32 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1978:37799 CAPLUS
DOCUMENT NUMBER: 88:37799
TITLE: Substituted bromo- or chloroacetamide herbicides
INVENTOR(S): Cheng, Jiin Duey
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: U.S., 11 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4055410	A	19771025	US 1976-667279	19760315
US 4104051	A	19780801	US 1977-820883	19770801
PRIORITY APPLN. INFO.:			US 1976-667279	A3 19760315

GI



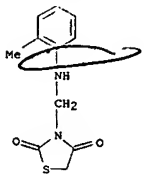
I

AB Chloroacetamides I (R = Me, OMe, OEt, Et, CHMe2, OCHMe2, CHMeEt, X = S, NMe) were prepared Thus 2,4-thiazolidinedione was treated with 2-MeC6H4NH2 and CH2O and the product chloroacetylated to give I (R = Me, X = S). A 2 kg/ha pre-emergence I (R = Me, X = S) was totally effective against crabgrass and barnyard grass.

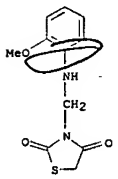
IT 65191-58-4P 65191-60-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and chloroacetylation of)

RN 65191-58-4 CAPLUS
CN 2,4-Thiazolidinedione, 3-[[(2-methylphenyl)amino]methyl]- (9CI) (CA INDEX NAME)

L10 ANSWER 32 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



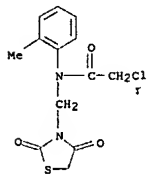
RN 65191-60-8 CAPLUS
CN 2,4-Thiazolidinedione, 3-[[(2-methoxyphenyl)amino]methyl]- (9CI) (CA INDEX NAME)



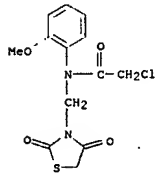
IT 65191-59-5P 65191-61-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and herbicidal activity of)

RN 65191-59-5 CAPLUS
CN Acetamide, 2-chloro-N-[(2,4-dioxo-3-thiazolidinyl)methyl]-N-(2-methylphenyl)- (9CI) (CA INDEX NAME)

L10 ANSWER 32 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

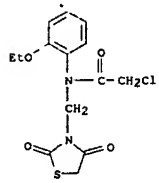


RN 65191-61-9 CAPLUS
CN Acetamide, 2-chloro-N-[(2,4-dioxo-3-thiazolidinyl)methyl]-N-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)



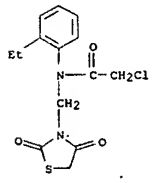
IT 65191-64-2P 65191-65-3P 65191-66-4P
65191-67-5P 65191-68-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 65191-64-2 CAPLUS
CN Acetamide, 2-chloro-N-[(2,4-dioxo-3-thiazolidinyl)methyl]-N-(2-ethoxyphenyl)- (9CI) (CA INDEX NAME)

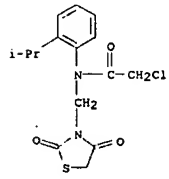


RN 65191-65-3 CAPLUS
CN Acetamide, 2-chloro-N-[(2,4-dioxo-3-thiazolidinyl)methyl]-N-(2-

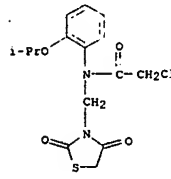
L10 ANSWER 32 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
ethylphenyl)- (9CI) (CA INDEX NAME)



RN 65191-66-4 CAPLUS
CN Acetamide, 2-chloro-N-[(2,4-dioxo-3-thiazolidinyl)methyl]-N-[2-(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)

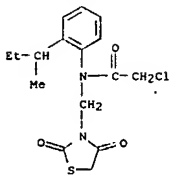


RN 65191-67-5 CAPLUS
CN Acetamide, 2-chloro-N-[(2,4-dioxo-3-thiazolidinyl)methyl]-N-[2-(1-methylethoxy)phenyl]- (9CI) (CA INDEX NAME)



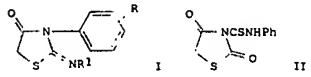
RN 65191-68-6 CAPLUS
CN Acetamide, 2-chloro-N-[(2,4-dioxo-3-thiazolidinyl)methyl]-N-[2-(1-methylpropyl)phenyl]- (9CI) (CA INDEX NAME)

L10 ANSWER 32 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L10 ANSWER 33 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1976:559966 CAPLUS
DOCUMENT NUMBER: 85:159966
TITLE: Reaction of 2-imino-3-aryl-4-oxothiazolidines with phenyl isothiocyanate
AUTHOR(S): Svetkin, Yu. V.; Vasil'eva, S. A.; Tokareva, L. D.
CORPORATE SOURCE: Bashk. Gos. Univ., Ufa, USSR
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1976), (7), 903-5
CODEN: KGSSAQ; ISSN: 0132-6244
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 85:159966
GI



AB Thiazolidinones (I, R = p-Me, p-MeO, p-EtO, m-Cl, p-Br, m-, p-O2N, p-heptyl, R1 = CSNHPh) were obtained in 70-94% yields by treatment of I (R1 = H) with PhNCS. Ring cleavage of I (R = H, R1 = CSNHPh) by hydrolysis with 36% HCl gave 10% HO2CCH2SC(NHPh):NCSNHPh which was cyclodehydrated and hydrolyzed to yield 30% II.

IT 60708-78-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 60708-78-3 CAPLUS

CN 3-Thiazolidinecarbothioamide, 2,4-dioxo-N-phenyl- (9CI) (CA INDEX NAME)

L10 ANSWER 34 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1975:524029 CAPLUS
DOCUMENT NUMBER: 83:124029
TITLE: Light-sensitive material for color photography
INVENTOR(S): Arai, Atsuaki; Oishi, Yasushi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd.
SOURCE: Ger. Offen., 72 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

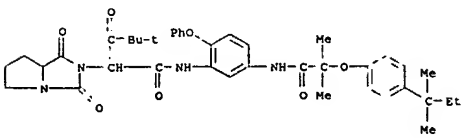
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2429637	A1	19750116	DE 1974-2429637	19740620
JP 50019435	A2	19750228	JP 1973-69383	19730620
US 3891445	A	19750624	US 1974-480456	19740618
FR 2234589	A1	19750117	FR 1974-21405	19740620
BR 7405061	A0	19750121	BR 1974-5061	19740620
GB 1439106	A	19760609	GB 1974-27508	19740620
PRIORITY APPLN. INFO.:			JP 1973-69383 A	19730620

AB Color formers with an oleophilic, diffusion-resistant phenoxyisobutyramido group containing a total of 18-32 C atoms require only a small amount of a solvent (b. >75°) for their dispersion in Ag halide emulsions and yield dyes resistant to heat and moisture. Furthermore they are readily purified, do not crystallize, dissolve or diffuse in the developer. For their preparation a cyan, magenta, or yellow color former containing an NH2 group is reacted with a phenoxyisobutyryl chloride, such as ClCOC(Me)2O-m-C6H4C15H31. Thus, α-pivaloyl-2-chloro-5-[α-(3-pentadecylphenoxy)isobutyramido]acetanilide 3 g was dissolved at 60° in a mixture of di-Bu phthalate 1.5, EtOAc 2 ml, and Na bis(2-ethylhexyl) α-sulfosuccinate 150 mg, dispersed in 25 ml of an aqueous solution of gelatin 2 g at 50°, and added to a Ag(Br,I) emulsion.

IT 56534-47-5
RL: TEM (Technical or engineered material use); USES (Uses)
(photog. coupler)

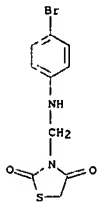
RN 56534-47-5 CAPLUS

CN 1H-Pyrrolo[1,2-c]imidazole-2(3H)-acetamide, α-(2,2-dimethyl-1-oxopropyl)-N-[5-[[2-[4-(1,1-dimethylpropyl)phenoxy]-2-methyl-1-oxopropyl]amino]-2-phenoxyphenyl]tetrahydro-1,3-dioxo- (9CI) (CA INDEX NAME)



L10 ANSWER 34 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L10 ANSWER 35 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1975:401367 CAPLUS
DOCUMENT NUMBER: 83:1367
TITLE: Antimicrobial effect of some derivatives of heterocycles of the azolidine and pyridine series
AUTHOR(S): Kondratenko, G. P.; Geonya, N. I.; Baranov, S. N.; Zhitar, B. E.; Kononenko, V. E.
CORPORATE SOURCE: Donetsk. Med. Inst., Donetsk, USSR
SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1975), 9(2), 26-8
CODEN: KHFZAN; ISSN: 0023-1134
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB 3-Morpholinomethyl-2-phenyl-4-thiazolidone-HCl [55144-39-3] and 1-methyl-2-p-dimethylaminobenzylpyridinium iodide [55144-40-6] were the most active bactericides of 22 azolidine and pyridine heterocyclic compds. tested against 8 bacterial species in vitro.
IT 55157-70-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and bactericidal activity of)
RN 55157-70-5 CAPLUS
CN 2,4-Thiazolidinedione, 3-[[(4-bromophenyl)amino]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

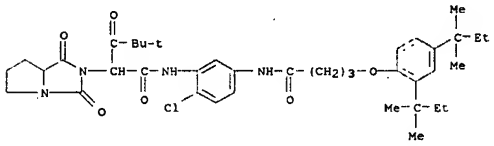


● HCl

L10 ANSWER 36 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1975:118174 CAPLUS
DOCUMENT NUMBER: 82:118174
TITLE: Photographic silver halide emulsion and light-sensitive material prepared from it
INVENTOR(S): Okumura, Akio; Sato, Akira; Ichijima, Seiji; Shiba, Keisuke; Nakazyo, Kiyoshi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd.
SOURCE: Ger. Offen., 55 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

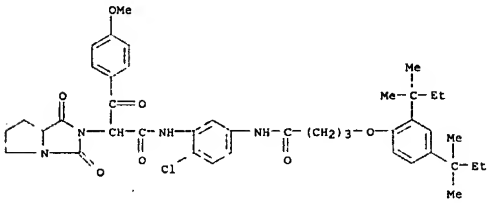
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2423820	A1	19741205	DE 1974-2423820	19740516
JP 50006341	A2	19750123	JP 1973-54456	19730516
US 4012259	A	19770315	US 1974-469923	19740514
GB 1439095	A	19760609	GB 1974-21921	19740516
PRIORITY APPLN. INFO.:			JP 1973-54456 A	19730516

AB The ketomethylene color formers containing in their coupling position a 2,5-dioxo-1-imidazolidinyl group are described. Thus, α-pivaloyl-α-(2,5-dioxo-3,4-trimethylene-1-imidazolinyl)-2'-chloro-5'-[γ-(2,4-di-tert-amylphenoxy)-butyramido]acetanilide was synthesized from the parent compound by exchanging a Cl atom by 2,5-dioxo-3,4-trimethyleneimidazolidine. Comparison of a processed film containing this coupler in a Ag(Br,I) emulsion with an analog in which the imidazolinyl residue carried a 3-Me group, instead of the 3,4-trimethylene group, revealed favorable sensitometric results and more complete removal of image Ag in a bleach solution
IT 54709-31-8 54709-32-9 54709-33-0 54709-34-1
RL: TEM (Technical or engineered material use); USES (Uses)
(photog. yellow coupler)
RN 54709-31-8 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-2(3H)-acetamide, N-[5-[[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]-α-(2,2-dimethyl-1-oxopropyl)tetrahydro-1,3-dioxo- (9CI) (CA INDEX NAME)

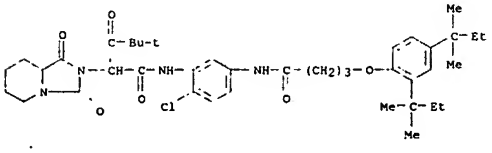


L10 ANSWER 36 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 54709-32-9 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-2(3H)-acetamide, N-[5-[[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]tetrahydro-α-(4-methoxybenzoyl)-1,3-dioxo- (9CI) (CA INDEX NAME)

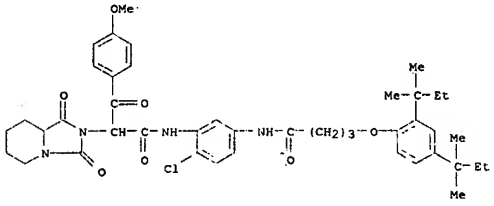


RN 54709-33-0 CAPLUS
CN Imidazo[1,5-a]pyridine-2(3H)-acetamide, N-[5-[[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]-α-(2,2-dimethyl-1-oxopropyl)hexahydro-1,3-dioxo- (9CI) (CA INDEX NAME)



RN 54709-34-1 CAPLUS
CN Imidazo[1,5-a]pyridine-2(3H)-acetamide, N-[5-[[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]hexahydro-α-(4-methoxybenzoyl)-1,3-dioxo- (9CI) (CA INDEX NAME)

L10 ANSWER 36 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

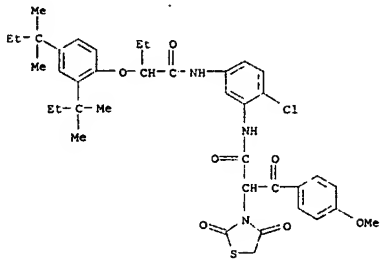


L10 ANSWER 37 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1974:571371 CAPLUS
DOCUMENT NUMBER: 81:171371
TITLE: α-(Diacylamino)-α-benzoylacetanilides
INVENTOR(S): Okumura, Akio; Sugizaki, Atsushi; Arai, Atsuaki
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd.
SOURCE: Ger. Offen., 22 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2402220	A1	19740725	DE 1974-2402220	19740117
JP 49094661	A2	19740909	JP 1973-9364	19730122
GB 1421125	A	19760114	GB 1974-715	19740107
PRIORITY APPLN. INFO.:			JP 1973-9364 A	19730122

AB The acetanilides I [R = H or MeO; R1 = H or 2,4-(EtMe2C)2C6H3OCHEtCONH; R2 = Cl or MeO; R3 = 2,4-(EtMe2C)2C6H3OCHEtCONH or n-C14H29O2CNH; Z = e.g. o-phenylene, CH2CH2, CMe2NH, or CH2S], useful as yellow couplers, were prepared Thus, 4-MeOC6H4COCHBrCONHC6H3[NHCOCHEtOC6H3(CMe2Et)2-2,4]Cl-5,2 reacted with K phthalimide to give the yellow coupler [I, R = MeO, R1 = H, R2 = Cl, R3 = 2,4-(EtMe2C)2C6H3OCHEtCONH, Z = o-phenylene] [50554-78-4]. Similarly prepared were 6 other I.
IT 53421-95-7P
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)
RN 53421-95-7 CAPLUS
CN 3-Thiazolidineacetamide, N-[5-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]-α-(4-methoxybenzoyl)-2,4-dioxo- (9CI) (CA INDEX NAME)

L10 ANSWER 37 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

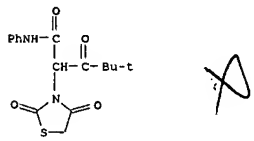


L10 ANSWER 38 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1973:541516 CAPLUS
DOCUMENT NUMBER: 79:141516
TITLE: Yellow coupler for color photography
INVENTOR(S): Kojima, Tamotsu; Imamura, Hiroyuki; Fujiwhara, Mitsuto; Fujimatsu, Wataru; Endo, Takaya
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd.
SOURCE: Ger. Offen., 45 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

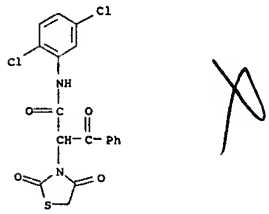
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2261361	A1	19730620	DE 1972-2261361	19721215
DE 2261361	C2	19841129		
JP 48066834	A2	19730913	JP 1971-101848	19711217
JP 51033410	B4	19760920		
JP 48066835	A2	19730913	JP 1971-101850	19711217
JP 56005988	B4	19810207		
JP 48094432	A2	19731205	JP 1972-25754	19720315
JP 60008497	B4	19850304		
GB 1425020	A	19760218	GB 1972-58102	19721215
CH 586919	A	19770415	CH 1972-18360	19721215
CH 590499	A	19770815	CH 1976-2819	19721215
CA 1018175	A1	19770927	CA 1972-159181	19721215
US 4314023	A	19820202	US 1980-210135	19801124
PRIORITY APPLN. INFO.:			JP 1971-101848 A	19711217
			JP 1971-101850 A	19711217
			JP 1972-25754 A	19720315
			US 1972-315667 A2	19721215
			US 1973-410361 A1	19731029

AB Yellow 2-equivalent color-couplers which are superior to conventional 4-equivalent color-couplers in that they have a superior coupling rate, use less Ag halide, and which can be used to form thinner emulsions of greater transmittance are described. These couplers consist of acetanilide derivs. such as 2-chloro-5-[γ-(2,4-di-tert-amylphenoxy)butyramido]-α-[1-(3-methyl-4-phenyl-2,5-dioxo-1,3,4-triazolidinyl)]-α-pivalylacetanilide (I), α-benzoyl-2-chloro-α-[1-(3-p-chlorophenyl-4-p-methylbenzyl-2,5-dioxo-1,3,4-triazolidinyl)]-5-[γ-(2,4-di-tert-amylphenoxy)butyramido]acetanilide, or 2-chloro-α-[1-(3-o-chlorophenyl-2,4,5-trioxoimidazolidinyl)]-5-[α,-α,α-(dodecyloxycarbonyldimethyl)methoxycarbonyl]acetanilide. Thus, I (prepared by refluxing α,2-dichloro-5-[γ-(2,4-di-tertamylphenoxy)butyramido]-α-pivalylacetanilide with 1-methyl-2-phenylurazole K salt in MeCN) 20 g in a di-Bu phthalate-EtOAc (2:6) mixture was added along with 6% Alkanol B (alkylnaphthalenesulfonate) 10 ml to a 6% aqueous gelatin solution 200 ml. After ball-milling, this dispersion was added to a gelatin-Ag(Br,I) emulsion, coated on a support, dried, exposed, and developed to give a Dmax. of 2.00 and a λmaximum of 447 vs. 1.50 and 447 for an unsubstituted coupler otherwise identical to I.
IT 50771-44-3 50771-45-4 50771-46-5
50771-47-6 50771-48-7 50771-49-8
50771-51-2 50771-55-6 50771-56-7
50929-74-3
RL: USES (Uses)
(photog. yellow 2-equivalent color coupler)
RN 50771-44-3 CAPLUS
CN 3-Thiazolidineacetamide, α-(2,2-dimethyl-1-oxopropyl)-2,4-dioxo-N-phenyl- (9CI) (CA INDEX NAME)

L10 ANSWER 38 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

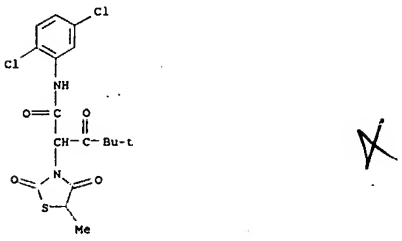


RN 50771-45-4 CAPLUS
CN 3-Thiazolidineacetamide, α-benzoyl-N-(2,5-dichlorophenyl)-2,4-dioxo- (9CI) (CA INDEX NAME)

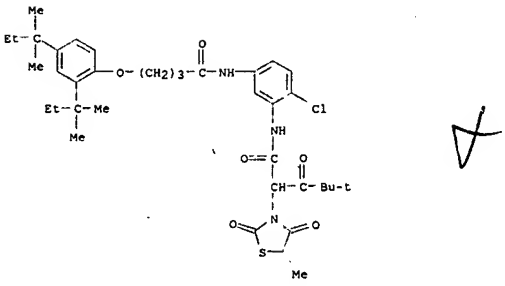


RN 50771-46-5 CAPLUS
CN 3-Thiazolidineacetamide, N-(2,5-dichlorophenyl)-α-(2,2-dimethyl-1-oxopropyl)-5-methyl-2,4-dioxo- (9CI) (CA INDEX NAME)

L10 ANSWER 38 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

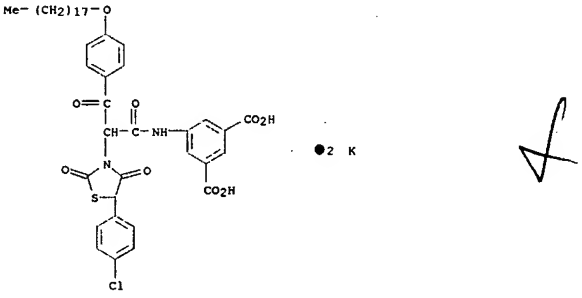


RN 50771-47-6 CAPLUS
CN 3-Thiazolidineacetamide, N-[5-[[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]-α-(2,2-dimethyl-1-oxopropyl)-5-methyl-2,4-dioxo- (9CI) (CA INDEX NAME)

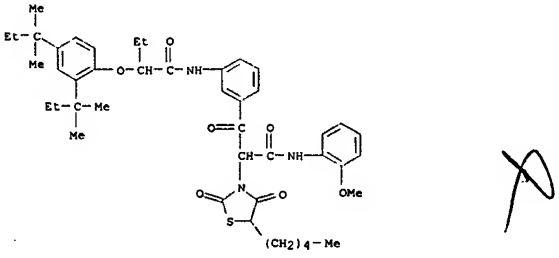


RN 50771-48-7 CAPLUS
CN 3-Thiazolidineacetamide, α-[3-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]benzoyl]-N-(2-methoxyphenyl)-2,4-dioxo- (9CI) (CA INDEX NAME)

L10 ANSWER 38 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

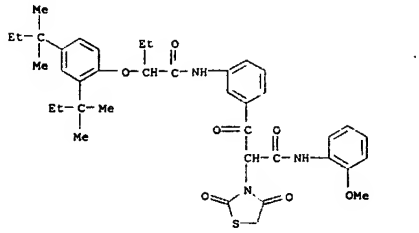


RN 50771-55-6 CAPLUS
CN 3-Thiazolidineacetamide, α-[3-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]benzoyl]-N-(2-methoxyphenyl)-2,4-dioxo-5-pentyl- (9CI) (CA INDEX NAME)



RN 50771-56-7 CAPLUS
CN 3-Thiazolidineacetamide, N-[5-[[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]-α-(2,2-dimethyl-1-oxopropyl)-2,4-dioxo- (9CI) (CA INDEX NAME)

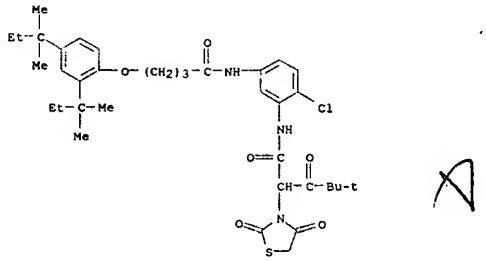
L10 ANSWER 38 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



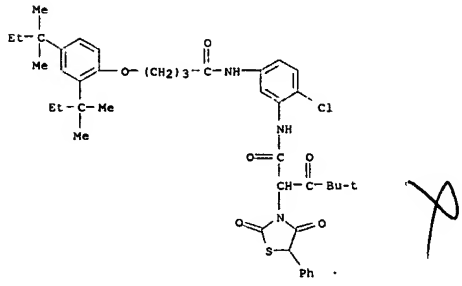
RN 50771-49-8 CAPLUS
CN 3-Thiazolidineacetamide, α-benzoyl-2,4-dioxo-N-phenyl-5-(phenylmethyl)- (9CI) (CA INDEX NAME)

RN 50771-51-2 CAPLUS
CN 1,3-Benzenedicarboxylic acid, 5-[[2-[5-(4-chlorophenyl)-2,4-dioxo-3-thiazolidinyl]-3-[4-(octadecyloxy)phenyl]-1,3-dioxopropyl]amino]-, dipotassium salt (9CI) (CA INDEX NAME)

L10 ANSWER 38 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 50929-74-3 CAPLUS
CN 3-Thiazolidineacetamide, N-[5-[[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]-α-(2,2-dimethyl-1-oxopropyl)-2,4-dioxo-5-phenyl- (9CI) (CA INDEX NAME)



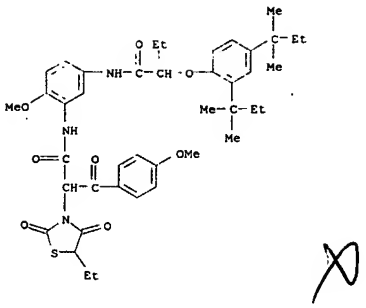
L10 ANSWER 39 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1973:510295 CAPLUS
DOCUMENT NUMBER: 79:110295
TITLE: Photographic yellow color formers
INVENTOR(S): Okumura, Akio; Arai, Atsuaki; Oishi, Yasushi; Nakazyo, Kiyoshi; Sugizaki, Atsushi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd.
SOURCE: Ger. Offen., 139 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2263875	A1	19730705	DE 1972-2263875	19721228
JP 48073147	A2	19731002	JP 1972-3039	19711228
BE 793446	A1	19730416	BE 1972-125935	19721228
NL 7217721	A	19730702	NL 1972-17721	19721228
FR 2169879	A1	19730914	FR 1972-46679	19721228
AU 7250572	A1	19740704	AU 1972-50572	19721228
CH 561436	A	19750430	CH 1972-18979	19721228
GB 1421123	A	19760114	GB 1972-59952	19721228
GB 1421126	A	19760114	GB 1975-27008	19721228
CA 1041343	A1	19781031	CA 1972-160112	19721228
US 4269936	A	19810526	US 1972-319806	19721229

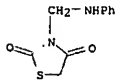
PRIORITY APPLN. INFO.: JP 1972-3039 A 19711228

GI For diagram(s), see printed CA Issue.
AB The introduction of a cyclic diacylimido group into the coupling position of aromatic acylacetanilides (I; R1 = aryl; R2 = aryl or heterocycle; Z = the atoms necessary to complete a 4, 5, or 6-membered ring) results in 2-equivalent color formers with a high coupling rate which can be bleach-fixed in Fe3+-EDTA complex baths. If nondiffusing due to a C8-32 ballast group 0.1-0.5 mole may be added to an emulsion containing 1 mole Ag halide; in developers 0.5-5 g/l. may be used. Thus, II was obtained by condensing 2'-chloro-5'-[α-(2,4-di-tertamylphenoxy)butylamido]-α-bromo-α-(4-methoxybenzoyl)acetanilide with K phthalimide in Me2SO. A Ag halide emulsion containing per kg 28.8 g of II, dissolved in di-Bu phthalate-cyclohexanone at 70° and dispersed in 30 g gelatin as aqueous solution of 45° by 5 passages through a colloid mill, had the following characteristics, as compared with an emulsion containing 23.5 g of color former without the phthalimide group: relative speed 100 (96), Dmax. 3.24 (2.51), γ 2.57 (1.63), and fog 0.18 (0.12).
IT 50701-93-4
RL: TEM (Technical or engineered material use); USES (Uses) (photog. yellow coupler)
RN 50701-93-4 CAPLUS
CN 3-Thiazolidineacetamide, N-[5-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-methoxyphenyl]-5-ethyl-α-(4-methoxybenzoyl)-2,4-dioxo- (9CI) (CA INDEX NAME)

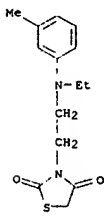
L10 ANSWER 39 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



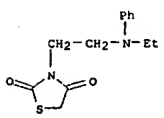
L10 ANSWER 40 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1973:84308 CAPLUS
DOCUMENT NUMBER: 78:84308
TITLE: Mannich reaction with 4-azolidones and their analogs
AUTHOR(S): Kononenko, V. E.; Zhitar, B. E.; Baranov, S. N.
CORPORATE SOURCE: Donetsk. Gos. Univ., Donetsk, USSR
SOURCE: Zhurnal Organicheskoi Khimii (1973), 9(1), 61-3
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI For diagram(s), see printed CA Issue.
AB Aminomethylation of 2,4-thiazolidinedione in a Mannich reaction with PhNH2 and CH2O gave 98% 2,4-thiazolidinedione (I; R = Ph, X = S). Analogously prepared were selenium analogs I (R = Ph, p-ClC6H4, m-ClC6H4, p-MeC6H4, 1-naphthyl, X = Se) in 76-99% yields, thiazolidinone derivs. (II; R = piperidino, morpholino, X = O; R = piperidino, X = S) in 63-73% yields, and thiazinediones (III; R = Ph, 1-naphthyl, X = S, Se; R = p-MeC6H4, X = Se) in 96-8% yields.
IT 39683-37-9P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
RN 39683-37-9 CAPLUS
CN 2,4-Thiazolidinedione, 3-[(phenylamino)methyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 41 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1972:14413 CAPLUS
DOCUMENT NUMBER: 76:14413
TITLE: Ureas from 2,4-thiazolidinedione
AUTHOR(S): Irick, Gether, Jr.
CORPORATE SOURCE: Tennessee Eastman Co. Div., Eastman Kodak Co., Kingsport, TN, USA
SOURCE: Journal of Heterocyclic Chemistry (1971), 8(5), 847-8
CODEN: JHTCAD; ISSN: 0022-152X
DOCUMENT TYPE: Journal
LANGUAGE: English
AB 2,4-Thiazolidinedione (I) was heated with RCl in DMF-K2CO3 for 1 hr at 130° to give 58-68% 3-(R-substituted)-2,4-thiazolidinediones [II, R = PhN(Et)CH2CH2, m-MeC6H4N(Et)CH2-CH2, or 2-(1,2,3,4-tetrahydro-2,2,4,7-tetramethyl-1-quinolinyl)-ethyl]. Heating I 4 hr at 143-6° with RCl-DMF-K2CO3 gave 30-8% corresponding RNHCONHR (II). Heating II in DMF-K2CO3 did not give III.
IT 6654-94-0P 34981-44-7P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
RN 6654-94-0 CAPLUS
CN 2,4-Thiazolidinedione, 3-[2-[ethyl(3-methylphenyl)amino]ethyl]- (9CI) (CA INDEX NAME)



RN 34981-44-7 CAPLUS
CN 2,4-Thiazolidinedione, 3-[2-(ethylphenylamino)ethyl]- (9CI) (CA INDEX NAME)



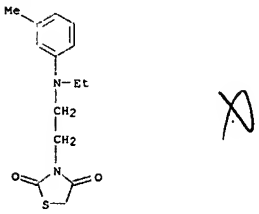
L10 ANSWER 41 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L10 ANSWER 42 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1969:404500 CAPLUS
DOCUMENT NUMBER: 71:4500
TITLE: Benzothiazolyl monoazo dyes
INVENTOR(S): Weaver, Max A.; Wallace, David J.
PATENT ASSIGNEE(S): Eastman Kodak Co.
SOURCE: U.S., 6 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

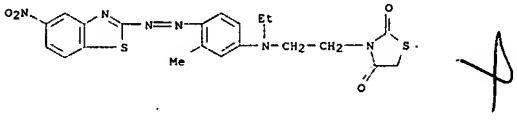
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3423394	A	19690121	US 1965-496130	19651014
GB 1163831	A	19690910	GB 1966-1163831	19660915
BE 687587	A	19670301	BE 1966-687587	19660929
PRIORITY APPLN. INFO.:			US 1965-496130 A	19651014

GI For diagram(s), see printed CA Issue.
AB Compds. of the general formula I were prepared and used as coupling components for the preparation of II, dyes for hydrophobic textile fibers.
Thus, a mixture of 3-MeC6H4NEtCH2CH2Cl 19.7, hydantoin 10, and K2CO3 13.8 g.
in 150 ml. dry HCONMe2 was refluxed for 1 hr. and poured into 500 ml. water to give 13.5 g. I (R = H, X = NH, Y = direct bond) (III), m. 76-7° (EtOH). Other I, similarly prepared, were (R, X, Y, and m.p. given): Me, NH, direct bond, 81-2°; H, NMe, direct bond, 72-3°; H, CH2, O, 82-3°; H, CH2, NH, 197.5-8.5°; H, NH, CH2, 108-10°; H, S, direct bond, 59-60°. III (2.61 g.) was coupled with 1.76 g. diazotized 2-amino-6-cyanobenzothiazole to give II (R = H, Z = CN, X = NH, Y = direct bond), which dyed polyester fibers red. Other II prepared were (R, Z, X, Y, and shade on cellulose acetate and polyester fibers given): H, MeSO2, CH2, O, violet; H, NO2, S, direct bond, red; H, CN, S, direct bond, red; H, CN, CH2, O, red; Me, MeSO2, NH, direct bond, red.
IT 6654-94-0P 23215-43-2P
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)
RN 6654-94-0 CAPLUS
CN 2,4-Thiazolidinedione, 3-[2-[ethyl(3-methylphenyl)amino]ethyl]- (9CI) (CA INDEX NAME)

L10 ANSWER 42 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 23215-43-2 CAPLUS
CN 2,4-Thiazolidinedione, 3-[2-[N-ethyl-4-[(5-nitro-2-benzothiazolyl)azo]-m-toluidino]ethyl]- (8CI) (CA INDEX NAME)

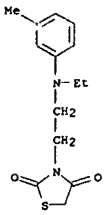


L10 ANSWER 43 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1968:437103 CAPLUS
DOCUMENT NUMBER: 69:37103
TITLE: Disazo dyes
INVENTOR(S): Weaver, Mas A.; Wallace, David J.
PATENT ASSIGNEE(S): Eastman Kodak Co.
SOURCE: U.S., 6 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3379712	A	19680423	US 1965-496131	19651014
BE 687987	A	19670316	BE 1966-687987	19661007
PRIORITY APPLN. INFO.:			US 1965-496131 A	19651014

AB The title compds. (I), dyes for cellulose acetate, nylon, and polyester fibers, are prepared by coupling diazotized aminoazobenzenes with compds. of the general formula II. Thus, the diazonium salt from 4.85 g. 4H2NC6H4N:NPh is coupled with 7.1 g. II (X = Cl, Y = OH, Z = SCH2) to give I (R1-R4 = H, X = Cl, Y = OH, Z = S), an orange dye. Similarly, other I (X = Me, Y = H) are prepared (R1, R2, R3, R4, Z, and shade given): H, Me, Me, Me, NH, red; Cl, H, Me, Me, CH2O, orange; H, H, H, H, NH, red; H, H, Cl, H, S, red; AcNH, H, Me, Me, NH, pink; H, H, H, H, NMe, orange. A mixture of 19.7 g. 3-MeC6H4NEtCH2CH2Cl, 10 g. hydantoin, 13.8 g. K2CO3, and 150 ml. dry Me2NCHO is refluxed for 1 hr. and poured into 500 ml. H2O to give 13.5 g. II (X = Me, Y = H, Z = NHCH2), m. 76-7° (EtOH). Similarly are prepared other II (X = Me, Y = H) (Z and m.p. given): NHCMe2, 81-2°; NMeCH2, 72-3°; NHCH2CH2, 108-10°; SCH2, 59-60°. A mixture of 89 g. 3-MeC6H4NEtCH2CH2NH2, 67 g. O(CH2CO2H)2, and 0.1 g. 4-H2NC6H4SO3H is heated at 150-5° for 1 hr. and poured into 500 ml. EtOH to give 70.5 g. II (X = Me, Y = H, Z = CH2OCH2), m. 82-3° (EtOH). Similarly was prepared II (X = Me, Y = H, Z = CH2NHCH2), m. 197.5-8.5° (EtOH).
IT 6654-94-0P 19658-16-3P
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)
RN 6654-94-0 CAPLUS
CN 2,4-Thiazolidinedione, 3-[2-[ethyl(3-methylphenyl)amino]ethyl]- (9CI) (CA INDEX NAME)

L10 ANSWER 43 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 19658-16-3 CAPLUS
CN 2,4-Thiazolidinedione, 3-[2-[3-chloro-N-(2-hydroxyethyl)-4-[[p-(phenylazo)phenyl]azo]anilino]ethyl]- (8CI) (CA INDEX NAME)

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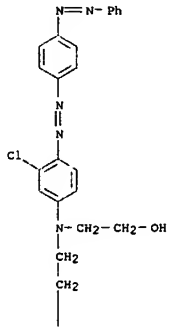
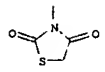


L10 ANSWER 43 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 2-A



L10 ANSWER 44 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:	1967:474474 CAPLUS
DOCUMENT NUMBER:	67:74474
TITLE:	Quaternary methine dyes for acrylic fibers
PATENT ASSIGNEE(S):	Eastman Kodak Co.
SOURCE:	Neth. Appl., 20 pp. CODEN: NAXXAN
DOCUMENT TYPE:	Patent
LANGUAGE:	Dutch
FAMILY ACC. NUM. COUNT:	1
PATENT INFORMATION:	

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 6614001		19670405	NL 1966-14001	19661004
DE 1619428			DE	
GB 1165734			GB	
US 3394130		19680723	US 1965-492866	19651004
PRIORITY APPLN. INFO.:			US	19651014

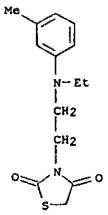
GI For diagram(s), see printed CA Issue.

AB Compds. of the general structure I, prepared by condensing a 1,3,3-trimethyl-2-methyleneindoline with II (X = CHO), are useful for dyeing acrylic fibers. II (X = CHO) are prepared by reaction of II (X = H) with POCl3 and HCONMe2. Thus, refluxing 19.7 g. 3-MeC6H4NEtCH2CH2Cl, 10 g. hydantoin, 13.8 g. K2CO3, and 150 ml. HCONMe2 for 1 hr. yielded 13.5 g. II (R = Me, X = Y = H, Z = CH2NH), m. 76-7° (alc.). The following II (R = Me, X = Y = H) were prepared similarly (Z and m.p. given): CMe2NH, 81-2° (alc.); CH2NMe, 72-3° (alc.); CH2CH2NH, 108-10° (50% aqueous alc.); CH2S, 59-60° (alc.). Heating 89 g. 3-MeC6H4NEtCH2CH2NH2 (IV) with 67 g. O(CH2CO2H)2 and 0.1 g. 4-H2NC6H4SO3H for 1 hr. at 150-5° yielded 70.5 g. II (R = Me, X = Y = H, Z = CH2OCH2), m. 82-3° (alc.). Similarly, HN(CH2CO2H)2 at 180-90° yielded 20 g. III (R = Me, X = Y = H, Z = CH2NHCH2), m. 197.5-8.5° (alc.). Heating 89 g. IV for 1 hr. with 74 g. phthalic anhydride at 130-40° yielded 129 g. III (R = Me, X = Y = H, Z = o-phenylene) (V), m. 86-7°. A mixture of 30.8 g. V and 30 ml. HCONMe2 was treated with 11 ml. POCl3 at <25°, heated for 1 hr. at 100° and poured into 0.5 l. H2O to yield 30.7 g. II (R = Me, X = CHO, Y = H, Z = o-phenylene), m. 127-8.5° (alc.). 1,3,3-Trimethyl-2-methyleneindoline (1.73 g.) and 3.13 g. II (R = Me, X = CHO, Y = CN, Z = CH2CH2) in 20 ml. HCO2H was heated for 4 hrs. at 95-100°, the red solution poured into 1 l. H2O, treated with 2 g. ZnCl2, 50 ml. concentrated HCl, and 20 g. NaCl, and the precipitate filtered to yield I (X = H, R = Me, Y = CN, Z = CH2CH2, A = ZnCl3), which dyes acrylic fibers red. The following I were similarly prepared (X, R, Y, Z, and shade on acrylic fibers given): H, H, CN, CH2CH2, ZnCl3, scarlet; H, H, succinimido, CH2CH2, iodide, yellowish red; Cl, Me, CN, CH2CH2, ZnCl3, bluish red; H, Me, phthalimido, o-phenylene, ZrCl3, -; H, Me, CN, CH2CH2, HZn(SO4)2, red.

IT 6654-94-0P
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)

RN 6654-94-0 CAPLUS
CN 2,4-Thiazolidinedione, 3-[2-[ethyl(3-methylphenyl)amino]ethyl]- (9CI) (CA INDEX NAME)

L10 ANSWER 44 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

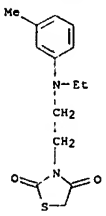


L10 ANSWER 45 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1966:448259 CAPLUS
DOCUMENT NUMBER: 65:48259
ORIGINAL REFERENCE NO.: 65:9070a-c
TITLE: N-(Dicarboximidoalkyl)anilines
INVENTOR(S): Weaver, M. A.; Wallace, D. J.
PATENT ASSIGNEE(S): Eastman Kodak Co.
SOURCE: 17 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

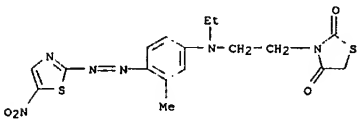
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 669005		19651216	BE 1966-9005	19650831
PRIORITY APPLN. INFO.:			US	19640903

GI For diagram(s), see printed CA Issue.
AB Title compds. of the general formula I were prepared for use as coupling components in in the preparation of azo dyes. In formula I, Z represents the atoms required to complete a substituted or unsubstituted hydantoin or a 2,5-dioxomorpholine, 2,5-dioxopiperazine, 5,6-dihydrouracil, or 2,4-dioxothiazolidine residue, m-MeC6H4N(CH2CH2Cl)Et (19.7 g.), 10.0 g. hydantoin, 13.8 g. K2CO3, and 150 cc. dry HCONMe2 refluxed 1 hr. and poured into 500 cc. H2O yielded 13.5 g. I (Z = NHCH2) (II), m. 76-7° (EtOH). Similarly, other I were prepared (Z and m.p. given): NHCMe2, 81-2° (EtOH); MeNCH2, 72-3° (EtOH); NHC2CH2, 108-10° (50% aqueous EtOH); CH2S, 59-60° (EtOH). m-MeC6H4N(CH2CH2NH2)Et (III) (89.0 g.), 67.0 g. O(CH2CO2H)2, and 0.1 g. p-H2NC6H4SO3H heated 1 hr. at 150-5° and poured into 500 cc. EtOH gave 70.5 g. I (Z = CH2OCH2), m. 82-3° (EtOH). Similarly, III and NH(CH2CO2H)2 gave I (Z = CH2NHCH2), m. 197.5-8.5° (EtOH). 2-Amino-5-nitrothiazole (IV) (2.9 g.) diazotized and coupled with 5.22 g. II yielded IV → II which dyes cellulose acetate and polyester fibers brilliant violet shades.
IT 6654-94-0, 2,4-Thiazolidinedione, 3-[2-(N-ethyl-m-toluidino)ethyl]- 6764-37-0, 2,4-Thiazolidinedione, 3-[2-[N-ethyl-4-[(5-nitro-2-thiazolyl)azo]-m-toluidino]ethyl]-
(preparation of)
RN 6654-94-0 CAPLUS
CN 2,4-Thiazolidinedione, 3-[2-[ethyl(3-methylphenyl)amino]ethyl]- (9CI) (CA INDEX NAME)

L10 ANSWER 45 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 6764-37-0 CAPLUS
CN 2,4-Thiazolidinedione, 3-[2-[N-ethyl-4-[(5-nitro-2-thiazolyl)azo]-m-toluidino]ethyl]- (7CI, 8CI) (CA INDEX NAME)

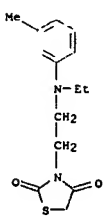


L10 ANSWER 46 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1966:448223 CAPLUS
DOCUMENT NUMBER: 65:48223
ORIGINAL REFERENCE NO.: 65:9062b-d
TITLE: Cationic azo dyes
INVENTOR(S): Mingasson, Georges
PATENT ASSIGNEE(S): Etablissements Kuhlmann
SOURCE: 3 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1429434		19660225	FR 1965-2121	19650115
PRIORITY APPLN. INFO.:			FR	19650115

GI For diagram(s), see printed CA Issue.
AB Compds. of the general formula I, where Z = N and Y = CH or Z = C and Y = NMe, are H2O-soluble dyes for polyacrylic fibers. Thus, 28 parts 6-amino-1,2-dimethyl-indazolium chloride (II) (70.5%) was dissolved in 100 parts H2O, diazotized, slowly added to a solution of AcCH2CN 8.2 in H2O 50 containing 20° Be.HCl 10 parts, and the precipitate filtered and dried to yield 25 parts azo dye (III). A mixture of III 2.88, H2NNH2.H2O 0.82, and H2O 30 parts, acidified (Congo red) with HCl, was refluxed for 1.5 hr., cooled, and NaOAc and NaCl added to precipitate I (Z = N, Y = CH, R = H, R' = Me), which dyed acrylic fibers golden yellow. Similarly, other I were prepared (Z, Y, R, R', and shade given): N, CH, Ph, Me, yellow (IV); C, NMe, H, Ph, greenish yellow. IV was also obtained by coupling diazotized II with 3-methyl-1-phenyl-5-aminopyrazole.
IT 6654-94-0, 2,4-Thiazolidinedione, 3-[2-(N-ethyl-m-toluidino)ethyl]-
(preparation of)
RN 6654-94-0 CAPLUS
CN 2,4-Thiazolidinedione, 3-[2-[ethyl(3-methylphenyl)amino]ethyl]- (9CI) (CA INDEX NAME)

L10 ANSWER 46 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

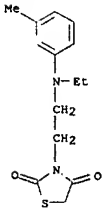


L10 ANSWER 47 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1966:448222 CAPLUS
DOCUMENT NUMBER: 65:48222
ORIGINAL REFERENCE NO.: 65:9061f-h,9062a-b
TITLE: Azo dyes for hydrophobic fibers
INVENTOR(S): Weaver, M. A.; Wallace, D. J.
PATENT ASSIGNEE(S): Eastman Kodak Co.
SOURCE: 24 pp. From: U.S..
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 669062		19651231	BE 1966-9062	19660903

GI For diagram(s), see printed CA Issue.
AB Compds. of the general formula I, where Z is Z1-Z7, dye hydrophobic fibers. Thus, 1.27 g. 4-ClC6H4NH2 was diazotized and coupled with 2.61 g. 3-MeC6H4N(Et)CH2CH2Z (II) (Z = Z1) (III) to give I (R1 = Cl, R2 = R3 = H, Z = Z1), which dyed cellulose acetate, polyesters, and nylon yellow. Similarly, other I were prepared (R1, R2, R3, Z, and shade given): NO2, Cl, Cl, Z2, brown; NO2, H, H, Z3, orange; NO2, Cl, H, Z4, red. Preparation of intermediates: a mixture of 19.7 g. II (Z = Cl) (IV), 10.0 g. hydantoin, 13.8 g. K2CO3, and 150 ml. HCONMe2 was refluxed for 1 hr., and the mixture drowned in 500 ml. H2O to give 13.5 g. III, m. 76-7° (EtOH); IV and 5,5-dimethylhydantoin gave II (Z = Z2), m. 81-2° (EtOH); IV and 1-methylhydantoin gave II (Z = Z5), m. 72-3° (EtOH); heating II (Z = NH2) (V) with O(CH2CO2H)2 and 4-H2NC6H4SO3H (VI) gave II (Z = Z4), m. 82-3° (EtOH); heating V, HN(CH2CO2H)2, and VI gave II (Z = Z6), m. 197.5-8.5° (EtOH); IV and 5,6-dihydrouracil gave II (Z = Z7), m. 108-10° (aqueous EtOH); IV and 2,4-thiazolidinedione gave II (Z = Z3), m. 59-60° (EtOH).
IT 6654-87-1, 2,4-Thiazolidinedione, 3-[2-[N-ethyl-4-[(p-nitrophenyl)azo]-m-toluidino]ethyl]- 6654-94-0, 2,4-Thiazolidinedione, 3-[2-(N-ethyl-m-toluidino)ethyl]- 6654-96-2, 2,4-Thiazolidinedione, 3-[2-[4-[(2,6-dichloro-4-nitrophenyl)azo]-N-ethyl-m-toluidino]ethyl]- 6654-98-4, 2,4-Thiazolidinedione, 3-[2-[N-ethyl-4-[[p-(methylsulfonyl)phenyl]azo]-m-toluidino]ethyl]- (preparation of)
RN 6654-87-1 CAPLUS
CN 2,4-Thiazolidinedione, 3-[2-[N-ethyl-4-[(p-nitrophenyl)azo]-m-toluidino]ethyl]- (7CI, 8CI) (CA INDEX NAME)

L10 ANSWER 47 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 6654-96-2 CAPLUS
CN 2,4-Thiazolidinedione, 3-[2-[4-[(2,6-dichloro-4-nitrophenyl)azo]-N-ethyl-m-toluidino]ethyl]- (7CI, 8CI) (CA INDEX NAME)

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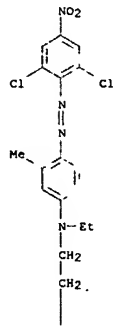

L10 ANSWER 47 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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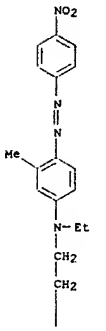

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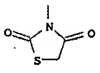

RN 6654-94-0 CAPLUS
CN 2,4-Thiazolidinedione, 3-[2-[ethyl(3-methylphenyl)amino]ethyl]- (9CI) (CA INDEX NAME)

L10 ANSWER 47 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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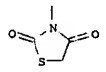

RN 6654-98-4 CAPLUS
CN 2,4-Thiazolidinedione, 3-[2-[N-ethyl-4-[[p-(methylsulfonyl)phenyl]azo]-m-toluidino]ethyl]- (7CI, 8CI) (CA INDEX NAME)

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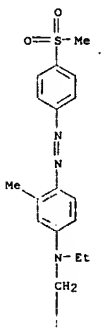
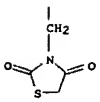


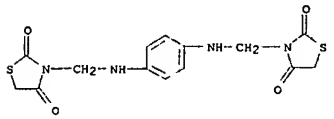
PAGE 2-A



L10 ANSWER 48 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1966:67845 CAPLUS
DOCUMENT NUMBER: 64:67845
ORIGINAL REFERENCE NO.: 64:12690b-f
TITLE: Bis-heterocyclic additives for rubber compositions
INVENTOR(S): Walker, Lloyd A.
PATENT ASSIGNEE(S): Monsanto Co.
SOURCE: 7 pp
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3225045		19651221	US 1964-351268	19640212
PRIORITY APPLN. INFO.:			US	19640212

GI For diagram(s), see printed CA Issue.
AB The title compds. of the general structure I where n and n' are integers (n = 0, when n' = 0), R1 and R2 are H, NO, or lower alkyl, and R and R3 are cyclic imino or imido groups, are, at concns. of 0.25-1.0%, effective in lowering torsional hysteresis, decreasing internal friction, increasing the modulus, and improving the dispersion in and reaction with rubber in vulcanizates. I are prepared by the reaction of aryl bis(amines) and N-containing heterocyclic compds., including imides with H2CO. Thus, 45 g. 37% H2CO and 74 g. phthalimide in 500 ml. EtOH was heated at reflux 1 hr. Upon addition of 27 g. 4-H2NC6H4NH2 a tan solid precipitated After heating at reflux 1 hr., the latter was filtered off, washed with EtOH, and air-dried to give I (R = R3 = phthalimido, R1 = R2 = H, n = n' = 0) (II), 98% yield. II (43 g.) was suspended in 350 ml. glacial HOAc, 84 ml. concentrated HCl added, the mixture chilled to -5 to 0°, and a solution of 16 g. NaNO2 in 50 ml. H2O added dropwise over 45 min. with stirring during which a solid separated After 2 hrs. at 0-20° the mixture was filtered to give I (R = R3 = phthalimido, R1 = NO, R2 = H, n = n' = 0), m. 155-8°, 74.4% yield. Thus prepared were I where R1 = R2 H and n = n' = 0 (R = R3, m.p., and yield given): thiophthalimido, --, --; dithiophthalimido, --, --; 4-nitrophthalimido, 173-8°, --; tetrahydrophthalimido, 183-5°, 80.5%; (R =) phthalimido, (R3 =) tetrahydrophthalimido, 251-3°, 84%; succinimido, 224-36°, 100%; bicyclo[2.2.1]hept-5-ene-2,3-dicarboximido, 240.5-1.5°, 95.1%; hydantoin-3-yl, 229-31°, 100%; 5-methylhydantoin-3-yl, 203-5°, 50%; 5,5-dimethylhydantoin-3-yl, 210-11°, --; 5-phenylhydantoin-3-yl, 180°, 42%; 5-nitroindazol-3-yl, 116.5-17°, 91.5%; phthalazin-1-on-2-yl, 254-5°, 88.5%; thiazolidine-2,4-dion-3-yl, 168-70°, 100%; and the 1,1-dioxide of benzisothiazolin-3-on-2-yl, 158-60°, 92%. Other I prepared were (R = R3, R1 = R2, n, n', m.p., and yield given): phthalimido, H, 1, 1, 265°, 91.5%; phthalimido, Me, 0, 0, 228-31°, 85%; 5,5-dimethylhydantoin-3-yl, H, 1, 1, --, 86%; and 5,5-dimethylhydantoin-3-yl, H, 2, 1, --, 96.5%.
IT 5203-55-4, 2,4-Thiazolidinedione, 3,3'-[p-phenylenebis(iminomethylene)]bis- (preparation of)
RN 5203-55-4 CAPLUS
CN 2,4-Thiazolidinedione, 3,3'-[p-phenylenebis(iminomethylene)]bis- (8CI) (CA INDEX NAME)



L10 ANSWER 49 OF 49 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1966:44943 CAPLUS
DOCUMENT NUMBER: 64:44943
ORIGINAL REFERENCE NO.: 64:8463h,8464a
TITLE: Promoting low hysteresis of rubber by using arylenebismethylimides
INVENTOR(S): Walker, Lloyd A.
PATENT ASSIGNEE(S): Monsanto Co.
SOURCE: 7 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3224999		19651221	US 1963-307813	19600720

AB A diene rubber, a relatively large amount of a rubber-reinforcing pigment, and 0.25-1.0% (based on the weight of rubber) of an arylenebismethylimide are mixed at ≥100°. Then conventional vulcanizing and processing materials are added and the mixture vulcanized. Such vulcanizates have a lower hysteresis than those without the arylenebismethylimide. For example, SBR-1502 100, N,N'-bis(phthalimidomethyl)-N,N'-dimethyl-p-phenylenediamine 0.5, and HAF carbon black 50 parts were masticated together for 6 min. at 100°. Then, ZnO 4, stearic acid 2, a saturated hydrocarbon softener 10, N-cyclohexyl-2-benzothiazolesulfenamide 1.2, and S 1.75 parts were added at 50° and the mixture cured for 45 min. at 144°. The 300% modulus was 2130 psi., the torsional hysteresis 0.192, and the heat rise after flexing in a Goodrich flexometer at 100° was 23°. Without the imido compound, the resp. figures were 1930 psi., 0.218, and 39°.
IT 5203-55-4, 2,4-Thiazolidinedione, 3,3'-[p-phenylenebis(iminomethylene)]bis- (rubber hysteresis lowering by)
RN 5203-55-4 CAPLUS
CN 2,4-Thiazolidinedione, 3,3'-[p-phenylenebis(iminomethylene)]bis- (8CI) (CA INDEX NAME)